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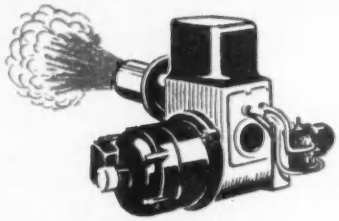

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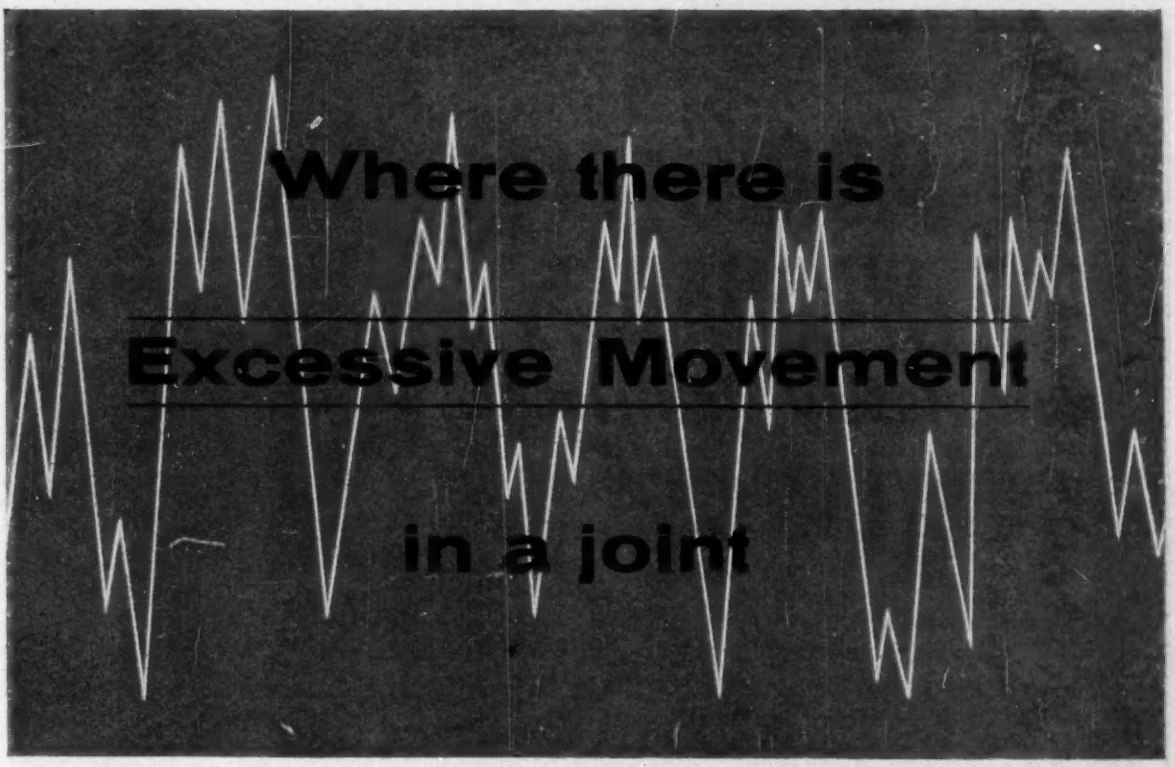

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Tretoplast coating being spray-applied to a prepared area of ceiling

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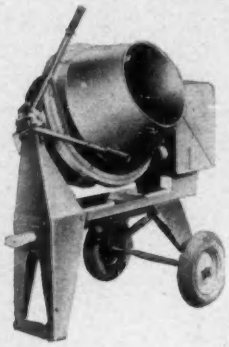

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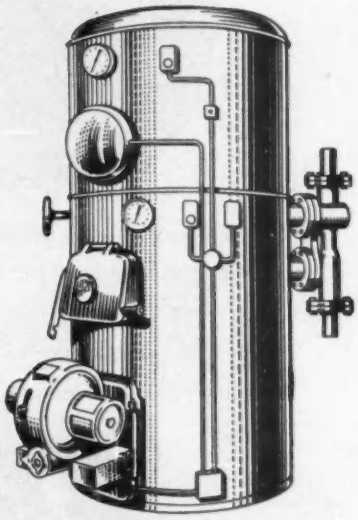

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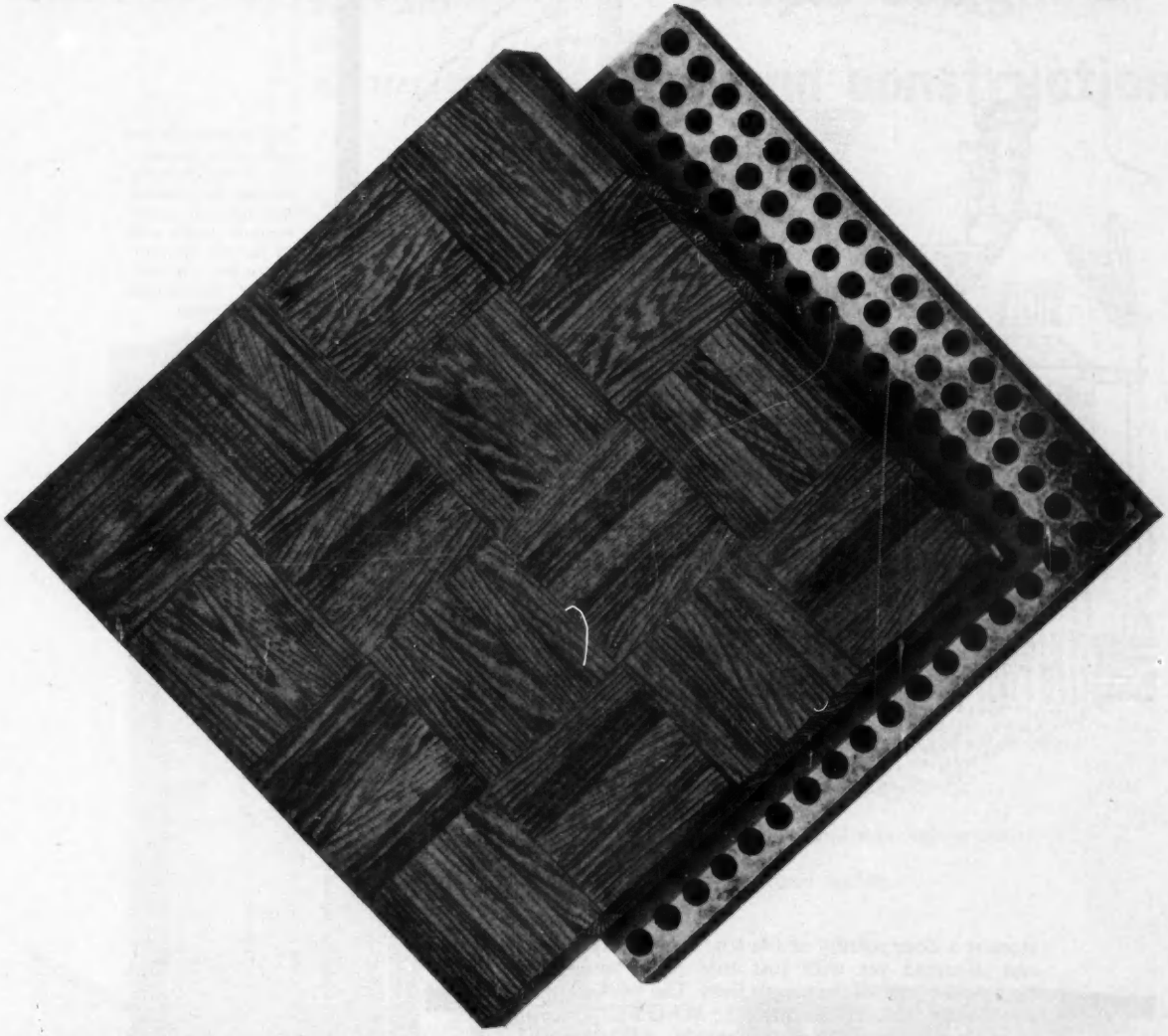

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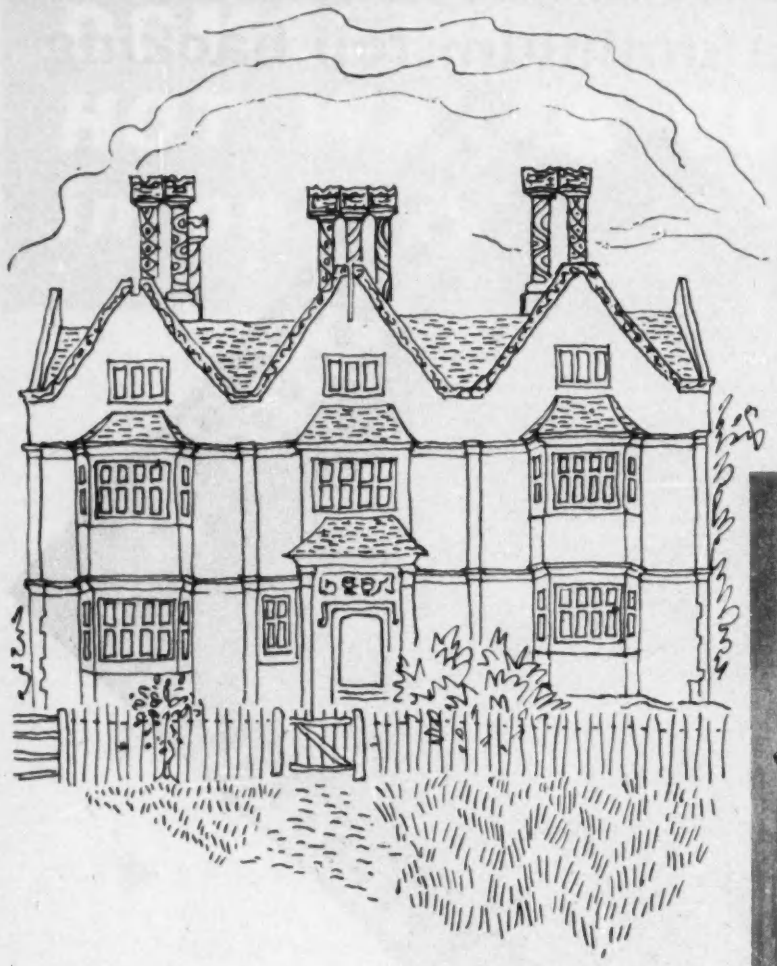
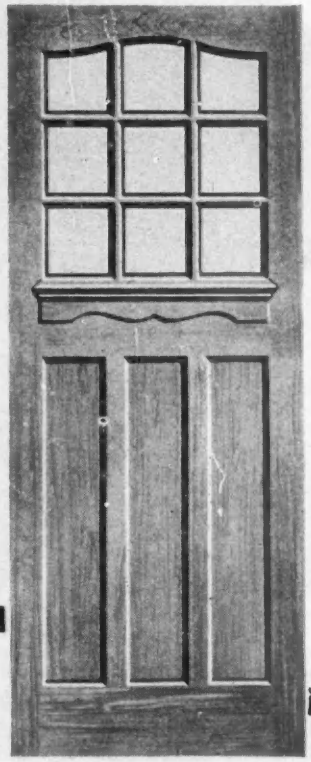


A product of the requirements of the day, the TUDOR house at the same time shows a true sense of architectural design with its feelings for symmetry and the very typical ornamented chimneys



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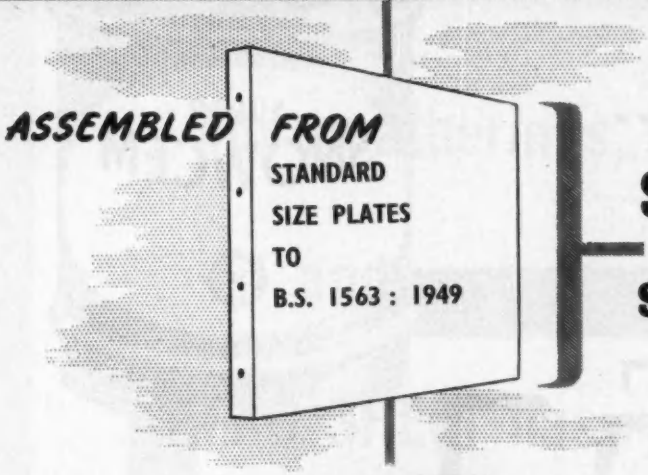

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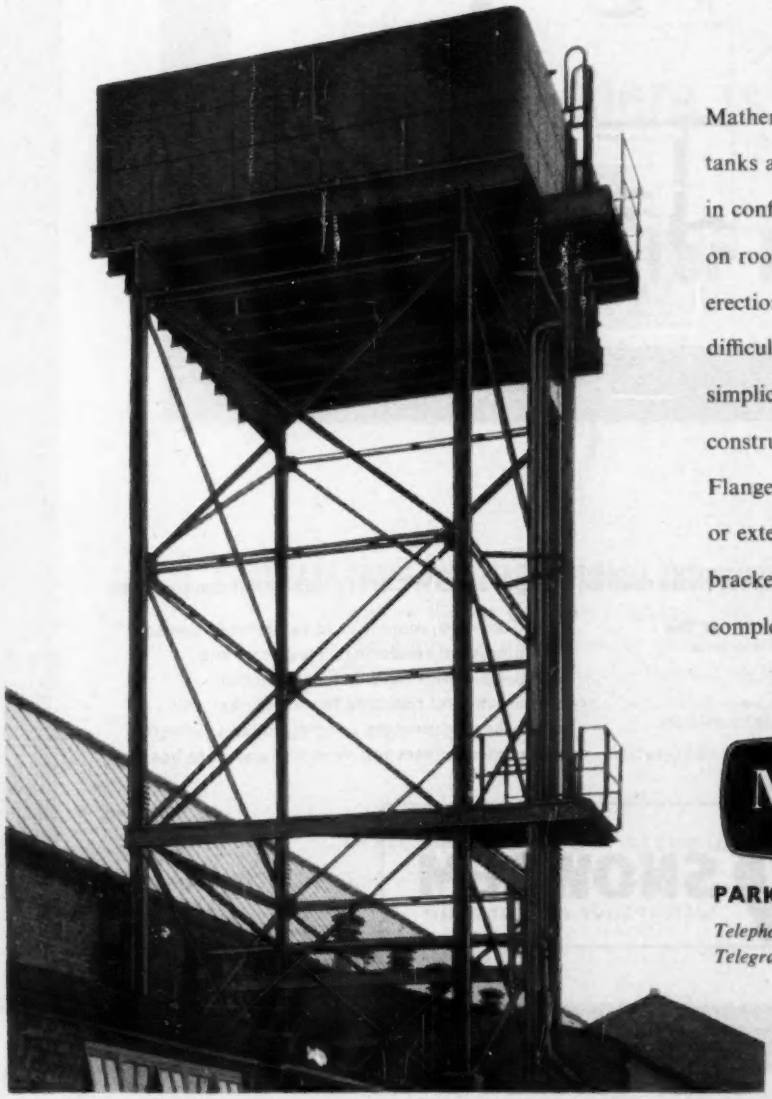

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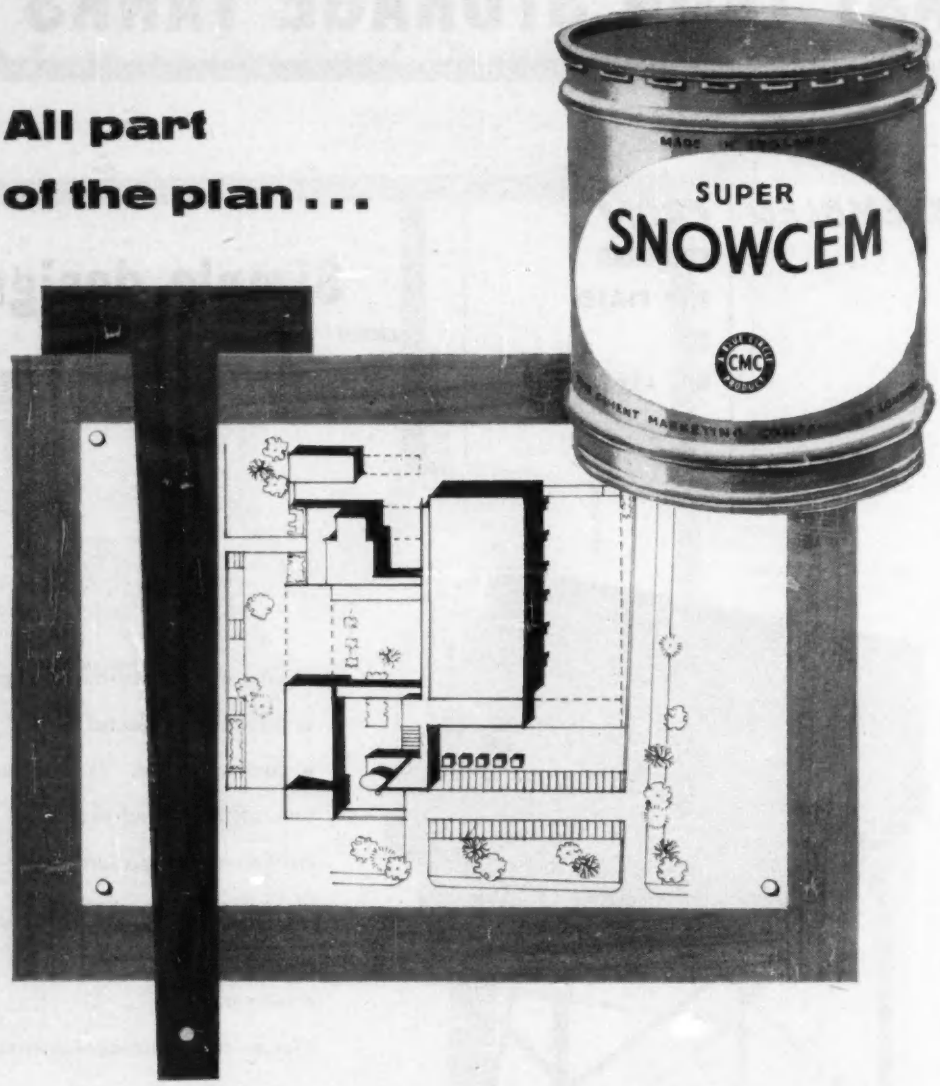

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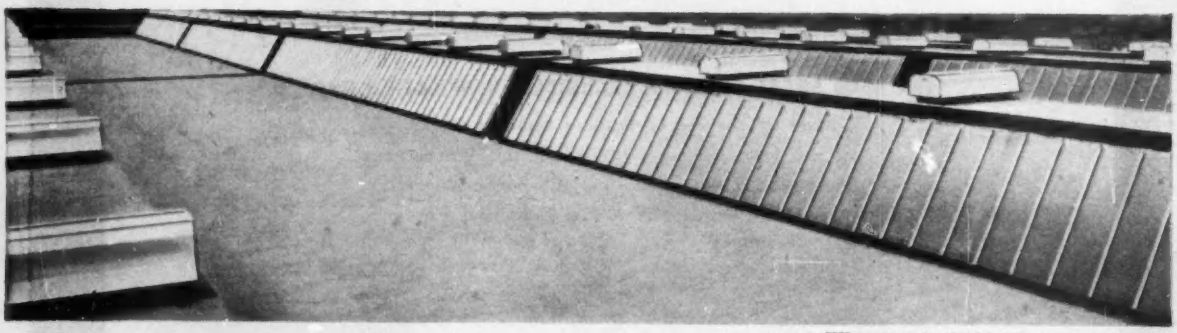

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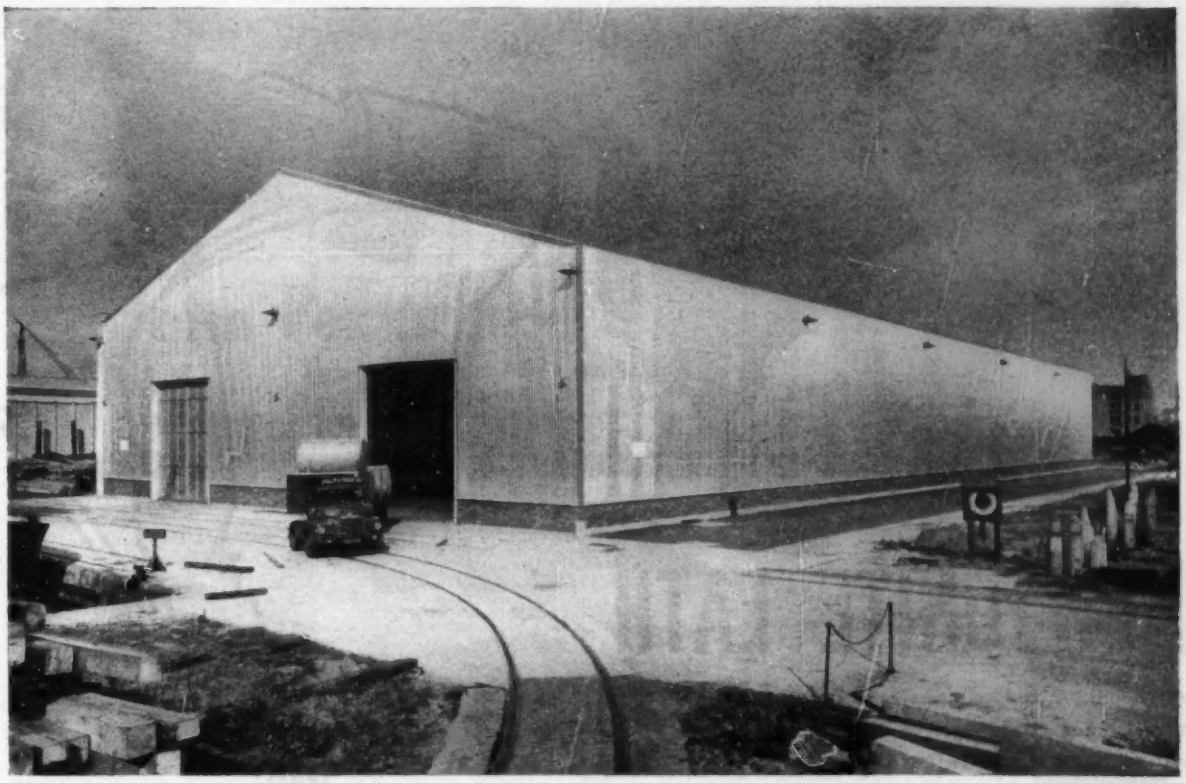

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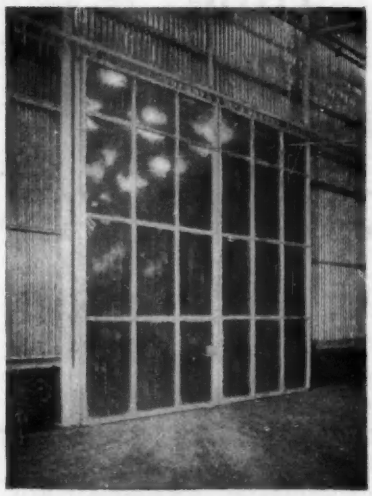

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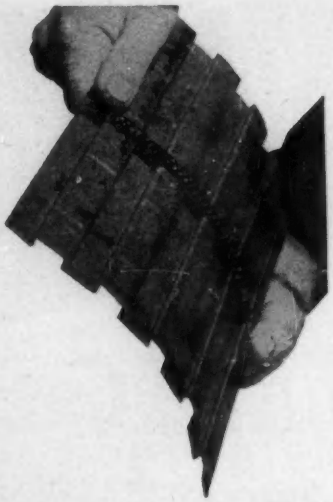

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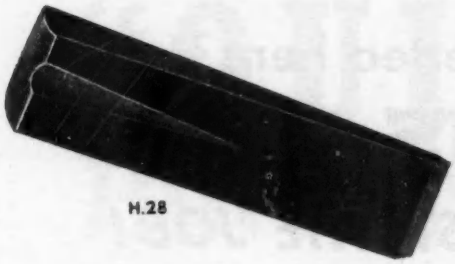
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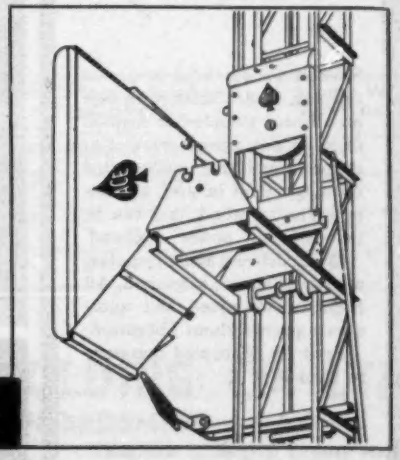

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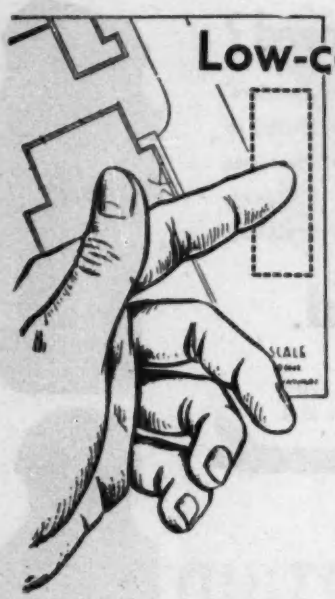

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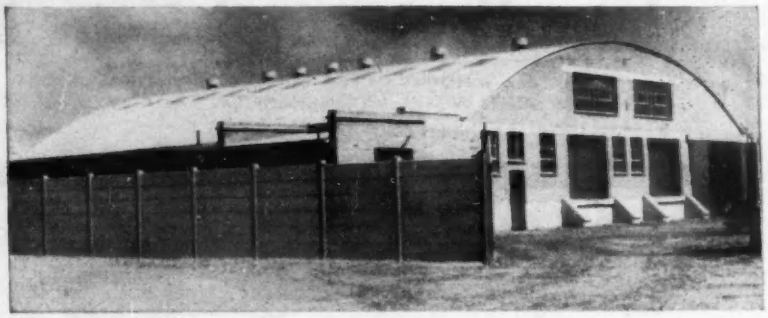

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Suitable for any kind or size of opening, Roller Shutters provide an efficient trouble-free method of protection against weather or intruder, and give unobstructed openings. Built in steel, aluminium alloy or wood, they can be manually or power operated.

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"QUIKLOCK"

Burton's ADJUSTABLE STEEL TRESTLES

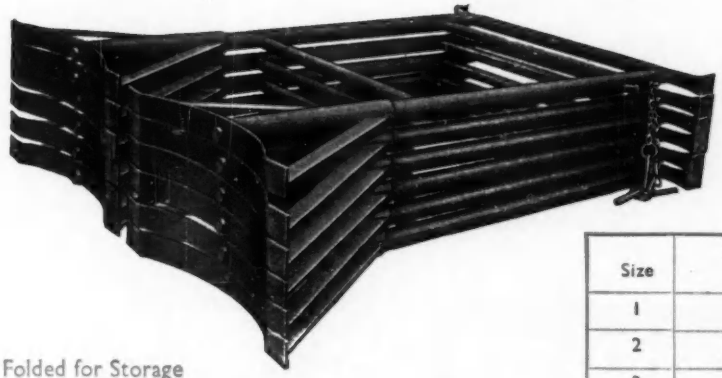
PAT. APP. FOR

1 Exceptionally strong Double Folding Trestle, suitable for Bricklayers, Plasterers, Decorators, Works Maintenance, etc.

2 Simple to set up by one man, no erection problems.

3 When Trestle is in use the feet lock at right angles, and for storage and transport can be folded and locked at 180 degrees, in other words **BURTON'S** Trestles lock in every 90 degree position.

4 Standard width take 4 — 9″ Boards.



Folded for Storage and Transport.

Burton's Double Folding Trestle supplied in the following four sizes.

Size	Height from Floor to Board level in 3″ adjustments.	Approx. Wt. each in lbs.
1	1′ 9″ Rising to 2′ 9″	41
2	2′ 9″ " " 4′ 6″	54
3	4′ 6″ " " 6′ 3″	70
4	6′ 3″ " " 8′ 0″	100

LONDON & MIDLAND STEEL SCAFFOLDING CO. LTD

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A WEALTH OF MEANING

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That is why, when Architects and Contractors select a mortar plasticiser, they call for 'Plasmor'

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- ★ **Makes mortar spread like butter**
- ★ **Reduces shrinkage cracks**
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- ★ **Speeds output**
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LILLINGTON'S **Plasmor**

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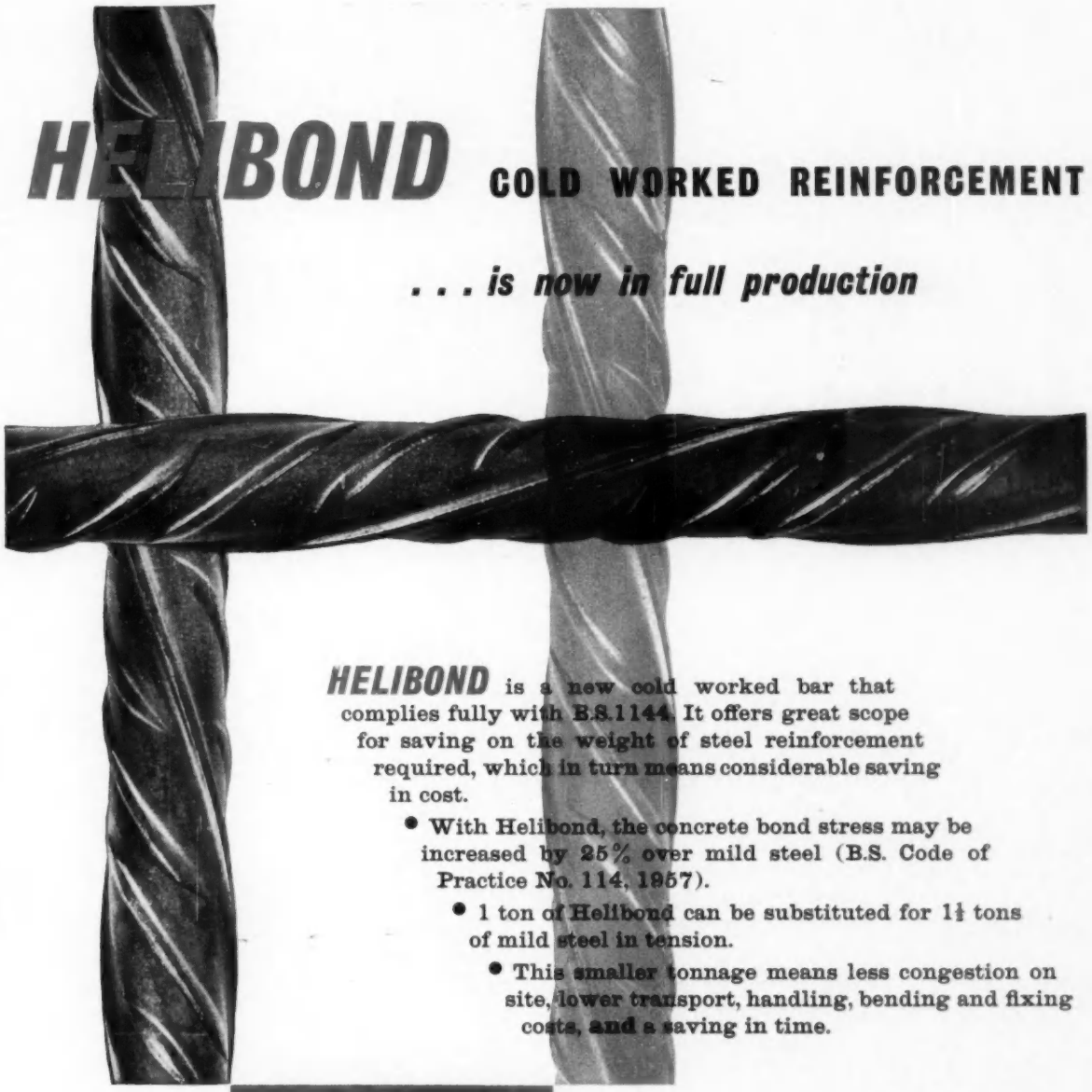
HELIBOND COLD WORKED REINFORCEMENT

. . . is now in full production



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Enquiries are now invited for immediate delivery, either in 40 ft. lengths, cut to length, or bent to schedule. We shall also be glad to undertake designing and fixing if required.

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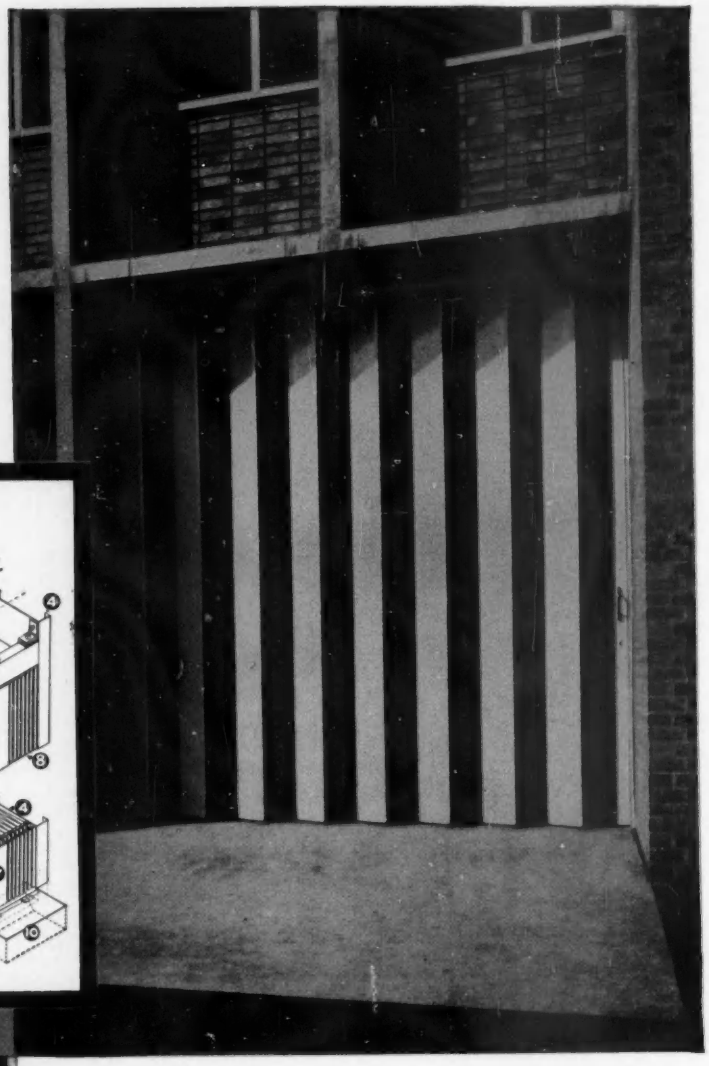
BOLTON *Collapsible*

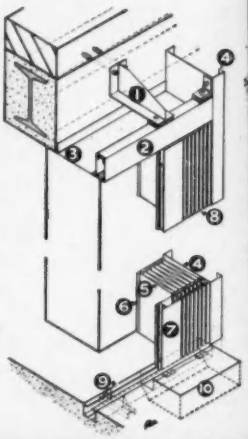
SHUTTER DOORS . . .

. . . are suitable for every type of building and may be had in any size up to 200 ft. wide x 30 ft. high. Of strong construction with heavily sherardised shutter leaves the Bolton Patent Shutter Door gives a lifetime of service and being top hung maintenance is minimized.



Recommended fixing detail

1. *Welded mild steel Suspension Bracket.*
2. *BOLTON Patent Totally-enclosed Box-type Top track.*
3. *Mild Steel Cover Plate for the exclusion of draught.*
4. *Mild Steel End Panels.*
5. *16's gauge mild steel Shutter Plates, vertical edges rolled round ¼" dia. wire for extra strength.*
6. *Manganese bronze or alloy Hinging Strip.*
7. *Rigid Front to accommodate locking arrangement.*
8. *Steel Pickets on which the door is built.*
9. *Self-cleaning Bottom Track, built up from rolled steel channels.*
10. *Mild Steel Sump-box, with hinged lid to facilitate cleaning out.*



Engineer Designed—Craftsman Built

Bolton Patent Shutter Doors are craftsman built from tested materials to a design which ensures complete freedom of operation. In addition to hand operation a variety of power methods is available including floor pad operation illustrated left.

Write now for comprehensive catalogue

Bolton Patent Shutter Doors have been chosen by H. J. Heinz Co. Ltd., for their new factory at Kitt Green, Wigan.

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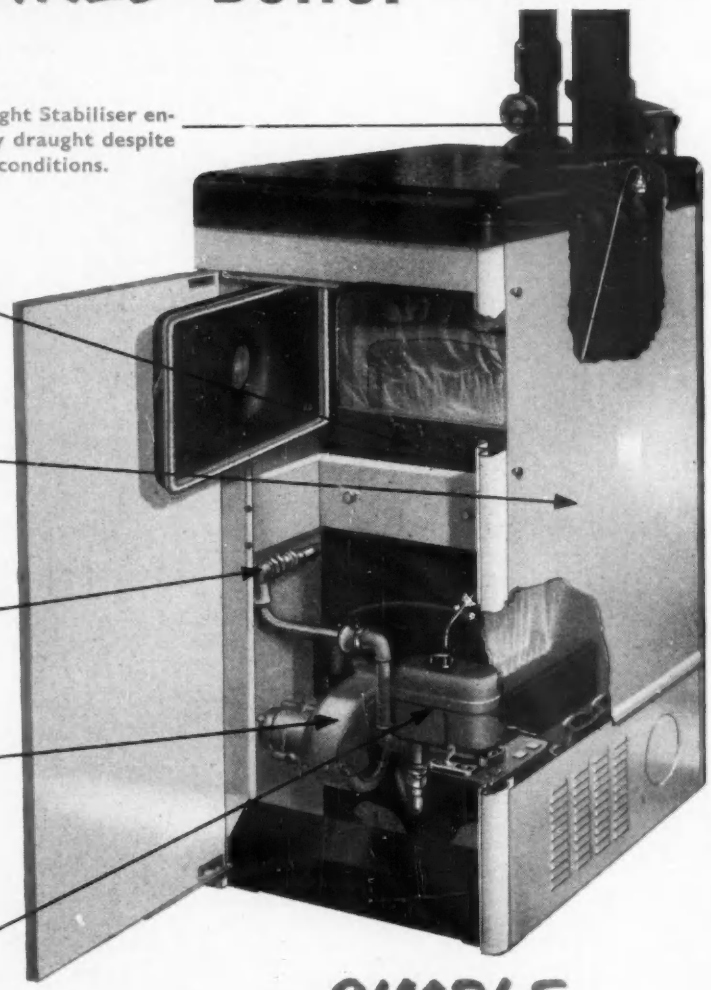
The NEW Ideal 'PARAGON' OIL-FIRED Boiler



★ "Ideal" Draught Stabiliser ensures a steady draught despite varying wind conditions.

★ Sectional boiler body made of cast-iron for long life.

★ Jacket totally enclosing cast-iron boiler and Oil Burner equipment. Supplied in black and cream, or black and white stove enamelled finish.

★ Oil supply pipe complete with oil filter.

★ Electrically operated fan fitted to oil-burning unit.

★ Oil control (thermostatically operated) fitted with three heat rotary control knob and push-button stop/start switch.

SIMPLE CLEAN QUIET EFFICIENT

The boiler is supplied in four sizes and rated from 35,000 to 65,000 B.T.U. per hour. They are delivered complete with thermostatically controlled fan-assisted vaporising burner unit, jig assembled to the front plate and all enclosed in an attractive enamelled jacket. Designed to operate with B.P. Domesticol, Esso Domestic Oil or the equivalent.

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Manufactured by

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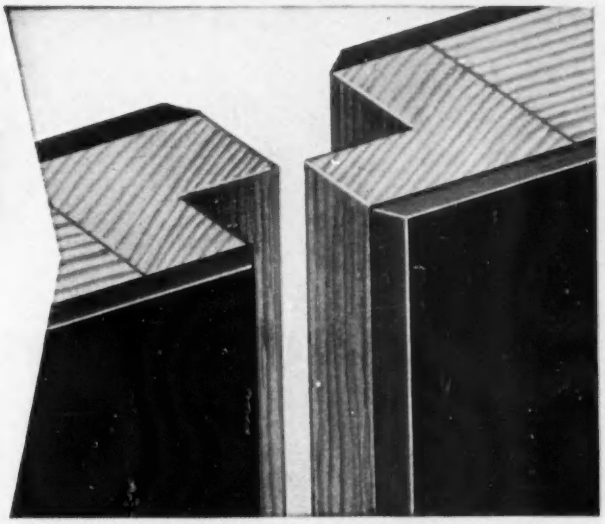

★ Rapid dry-construction

★ Flexible layout

★ De-mountable

★ Low cost

★ Hard surface

★ Sound reducing

★ Durable

Thanks to their ingenious design, STRAMIT 'MOVAFLUSH' PARTITIONS can be erected really quickly. Whilst top and bottom edges of each hardboard-faced Stramit panel are finished with square timber, the long edges have an L-shaped member. This means that successive panels can be rapidly, easily fitted together to give a flush finish. These new, dry-construction partitions are simply placed on a sole-plate and secured, being fixed to one another with screws which are neatly seated in brass cups.

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Ferodo Non-Slip Stairtreads blend with any interior decorations and even after years of constant use they give a reassuring foothold. Staircases in many kinds of public buildings and factories are fitted with Ferodo Stairtreads because they prevent accidents and are easy to clean.

Ferodo Stairtreads are available in 7 colours, 3 types of metal channel and 39 types of tread to suit any stair.

A Ferodo technical advisory service is available and a technical representative is in your area.

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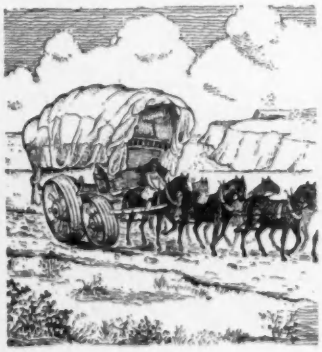
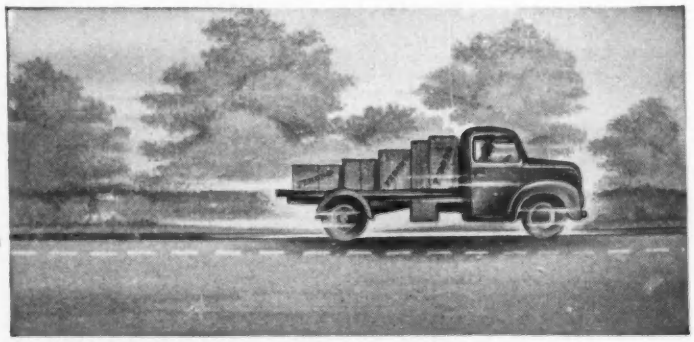


Sir Christopher Wren waited so long for deliveries of materials, but he expected nothing better. It was tough going for the teams of horses that drew the slow wagons of the 17th Century—the roads were deeply rutted and the wagons often overloaded.



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non-slip stairtreads

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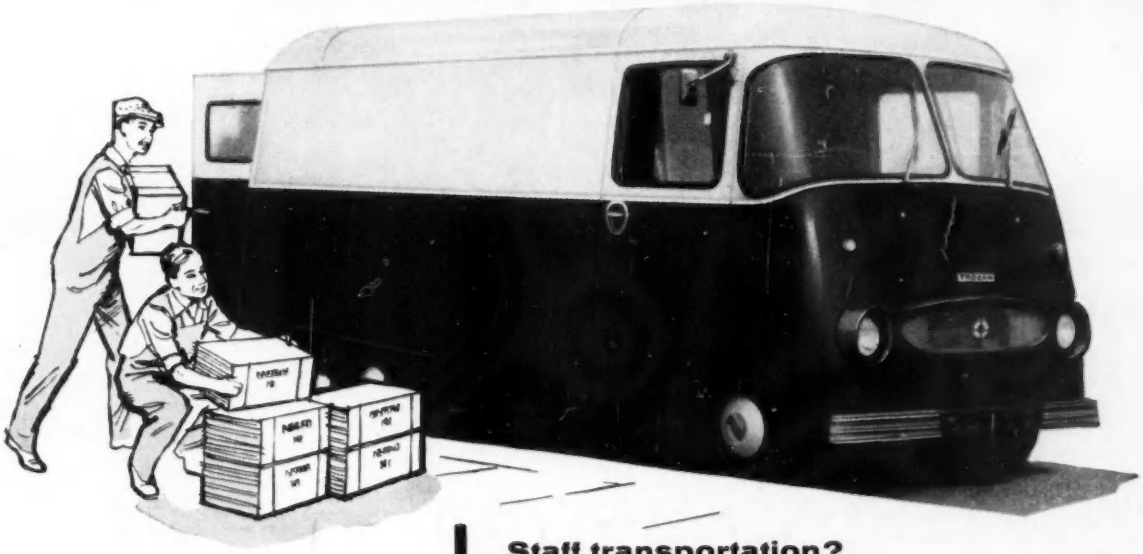
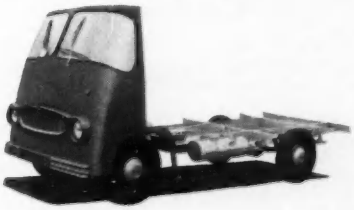


. . . and that means increased payload! The Trojan 25-Cwt Van has a goods capacity of over 350 cu ft and is ideal for light deliveries. Easy to drive . . . all-round vision . . . independent front suspension . . . handles like a thoroughbred! Carefully calculated loading-height for speedy handling of goods, whilst the Perkins P3 144 diesel engine, of course, needs no introduction from us.

Staff transportation?

Use the Trojan Personnel Wagon. Comfortable, reliable, and economic to run, it takes 12 passengers plus the driver.

For specialised bodywork . . .



the new Trojan forward-control chassis combines increased carrying capacity and maximum manoeuvrability . . . with exceptional economy. The strong, flat frame provides the basis for many applications of special-purpose bodies.

TROJAN for work

25-Cwt FORWARD-CONTROL VAN
PERSONNEL WAGON
FORWARD-CONTROL CHASSIS

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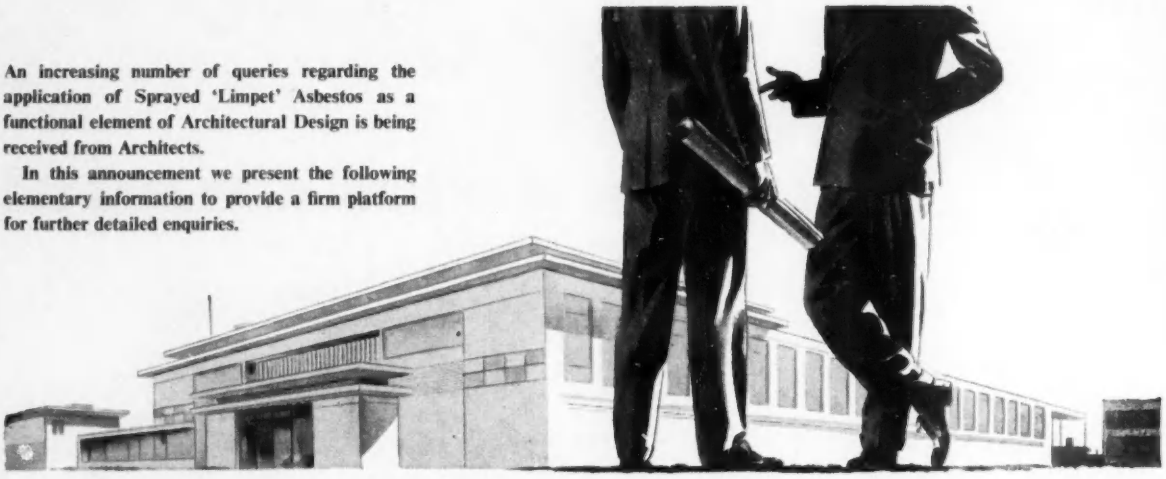
Smee's TV2

An increasing number of queries regarding the application of Sprayed 'Limpet' Asbestos as a functional element of Architectural Design is being received from Architects.

In this announcement we present the following elementary information to provide a firm platform for further detailed enquiries.



an architect asks questions about Sprayed 'Limpet' Asbestos by NEWALLS

REGD.

"What do you consider is the major advantage of Sprayed 'Limpet' Asbestos?"

Probably the most important element is that the 'Limpet' process gives intimate surface contact, sealing all joints, covering rivets, irregularities and protrusions in a continuous coat that entirely eliminates air spaces—a significant factor in itself.

"I understand that Sprayed 'Limpet' Asbestos has two insulating properties?"

Correct. In addition to providing a high degree of thermal insulation, it is an excellent material for absorbing sound. Indeed, many firms have specified the process for correcting acoustic distortions alone.

"Being largely Asbestos, I suppose the process gives a measure of fire protection?"

Most certainly! Again, it is often used solely because of its fireproofing properties. In fact, this method was the first to be approved for Class A fireproofing of ships under the 1948 Convention.

"Being porous, isn't the treatment liable to premature rotting where condensation exists?"

On the contrary. Asbestos is chemically inert. It is rotproof, verminproof and undamaged by water. Condensation is diffused preventing dripping and allowing for speedy re-evaporation to the atmosphere from the warm surface of the coating.

"It seems too versatile for words. It's a Thermal and Acoustic Insulant, rotproof and verminproof, fire-resistant, prevents condensation, resists vibration . . . anything else?"

Well. It has been used extensively purely as an anti-corrosion measure on metals subject to severe corrosive conditions, but we'd have to know the particular application you had in mind to give our full recommendations.

"Naturally. And if we did want Thermal and Acoustic Insulation—and Fire protection in one coating—I suppose it would cost the earth?"

Frankly—no. You see, the erection of timber grounds is not necessary. In application there is no cutting to waste, and the density and thickness is controllable to a very fine degree by highly efficient operators. It compares favourably with conventional insulation methods and materials.

Sprayed 'Limpet' Asbestos is a particularly suitable multi-purpose insulant in schools, public buildings and the like. Our considerable experience in this field will be gladly placed at your disposal.

Newalls

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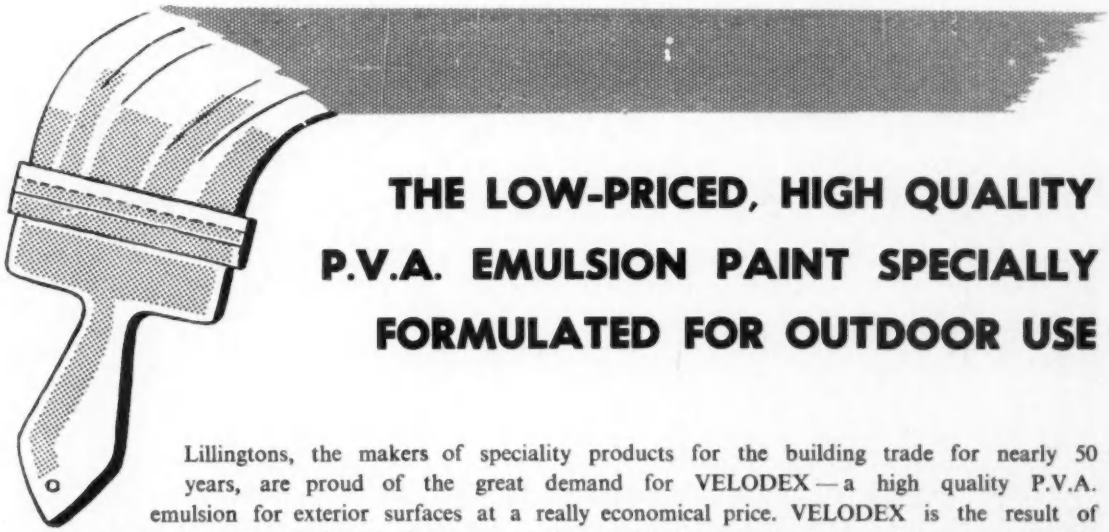
Offices and Depots at LONDON, GLASGOW, MANCHESTER, NEWCASTLE UPON TYNE, BIRMINGHAM, BELFAST, DUBLIN, BRISTOL & CARDIFF

VELODEX



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Lillingtons, the makers of speciality products for the building trade for nearly 50 years, are proud of the great demand for VELODEX — a high quality P.V.A. emulsion for exterior surfaces at a really economical price. VELODEX is the result of extensive research and gives far better results than dual purpose paints because it has been specially formulated for outdoor use. Apply VELODEX to all outside walls—whether brickwork, concrete, renderings or asbestos cement sheets—it has exceptional adhesive properties over existing coats of oil paints. It's simple to apply, quick drying, durable, washable and unaffected by alkalis.

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36/- per gallon in 5-gal. pails
Write for colour card and booklet V.E.1

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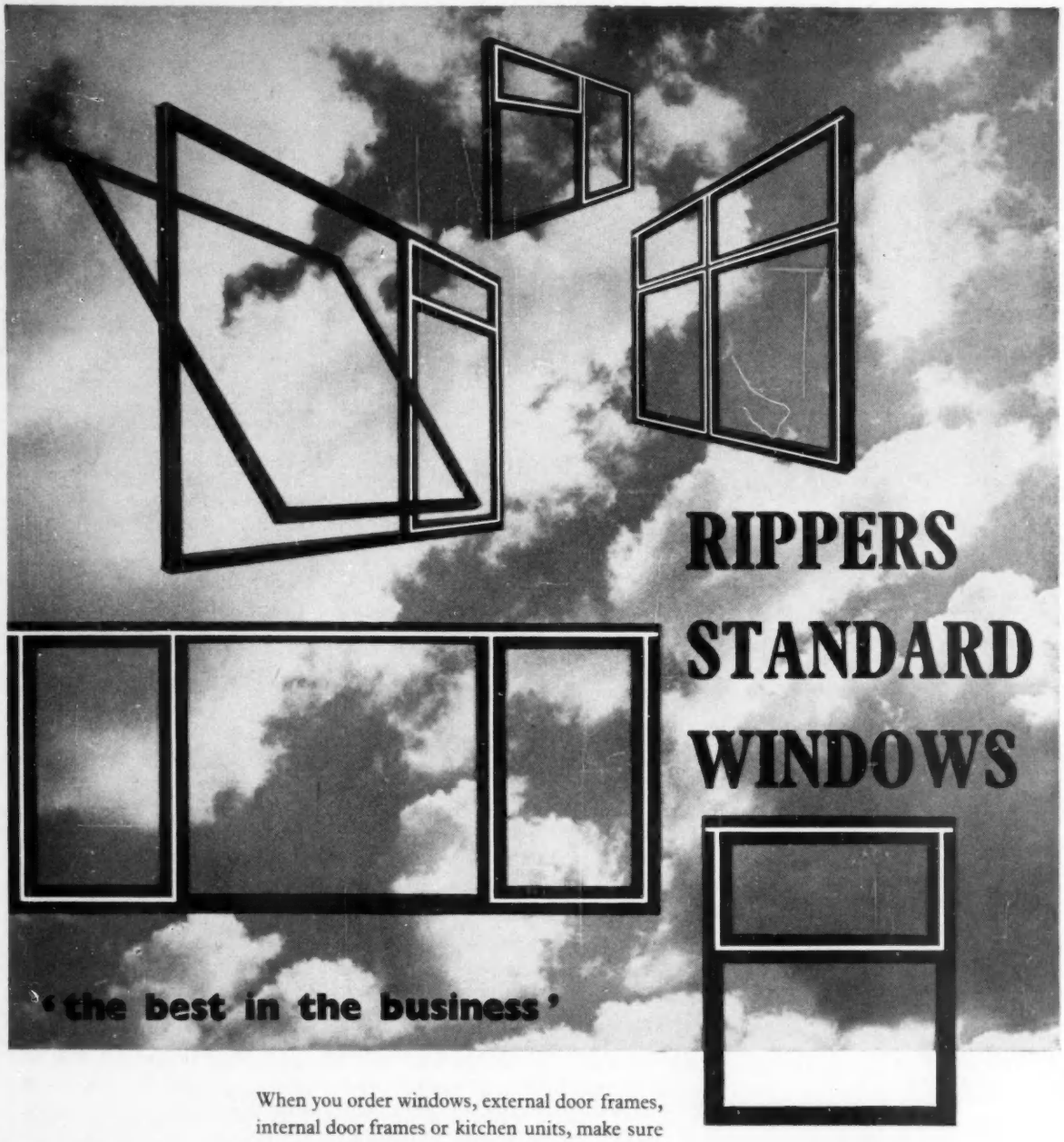

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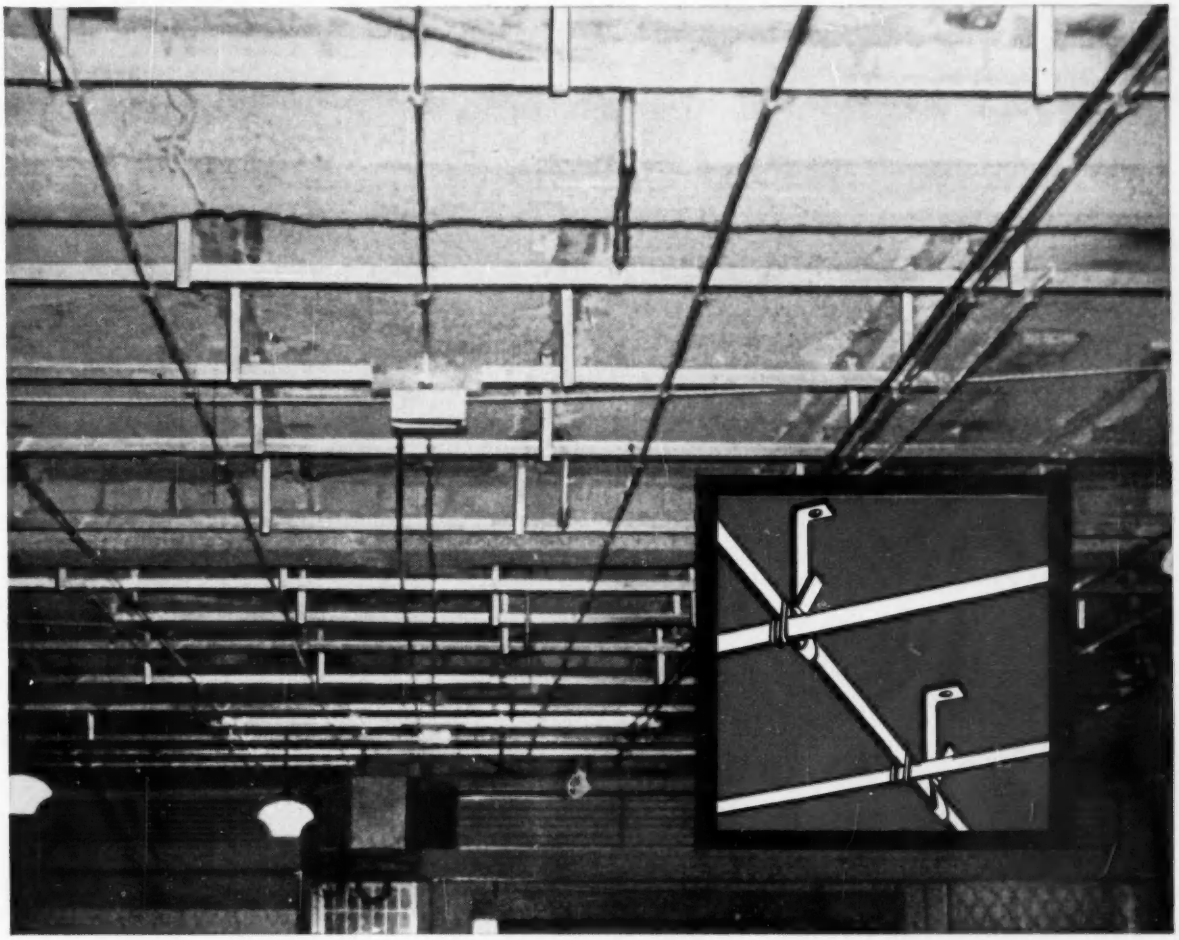
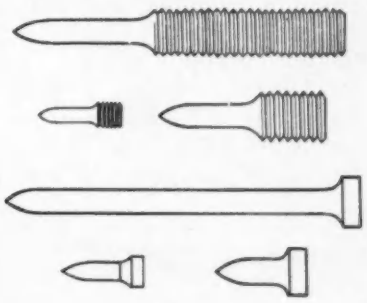


Supa Dynamic was chosen

Ceiling suspension brackets in this new suspended ceiling at Messrs. HARRODS LTD. were fixed to steel filler joists, with No. 475T078 Power Pins. This method of fixing—by *Supa Dynamic cartridge operated fixing tool*—obviated all drilling and tapping

The Supa Dynamic Mark IV is more than a fixing tool—it represents a proved *method* of fixing; efficient, labour saving and versatile. A product of the Bourner organisation backed by the finest "after sales" and power pin delivery service in the country.

If you like to know your fixing costs in advance, ask for the Supa-Dynamic brochure.



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Phone: Crawley 26166/7/8 Grams: Supataps, Crawley.

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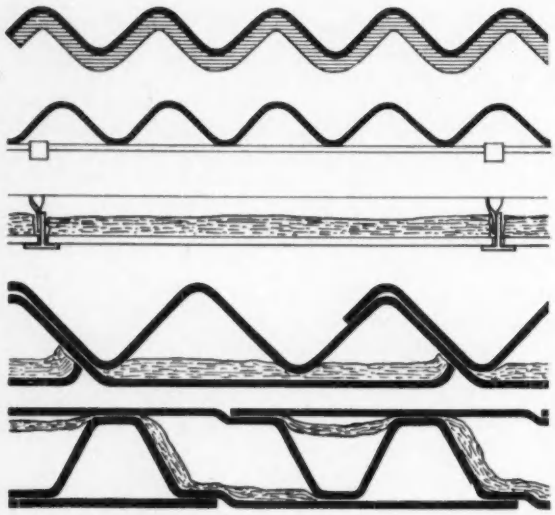
Below are four examples giving performance figures for different forms of constructions in our materials.



1. *Single skin corrugated sheet plus ¾" Sprayed "LIMPET" Asbestos on underside. U=0.28.*

2. *Single skin corrugated sheet with underpurlin lining of "TURNALL" Asbestos Insulation Board ¼" with 1" glassfibre or mineral wool mat in cavity. U=0.18.*

3. *"TURNALL" LARGESPAN Combined Sheet (Asbestos-Cement) with 1" glassfibre or mineral wool infill. U=0.17.*

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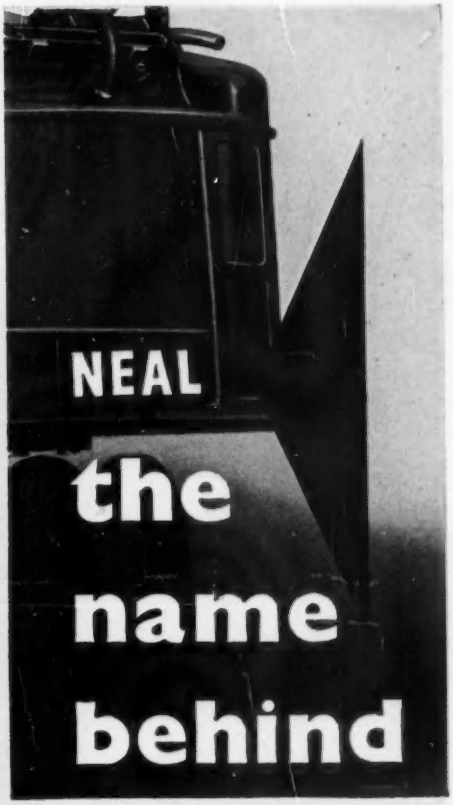

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The NEAL range and maximum capacities

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Type NS45	4 tons
Type G.M.	15 cwts.
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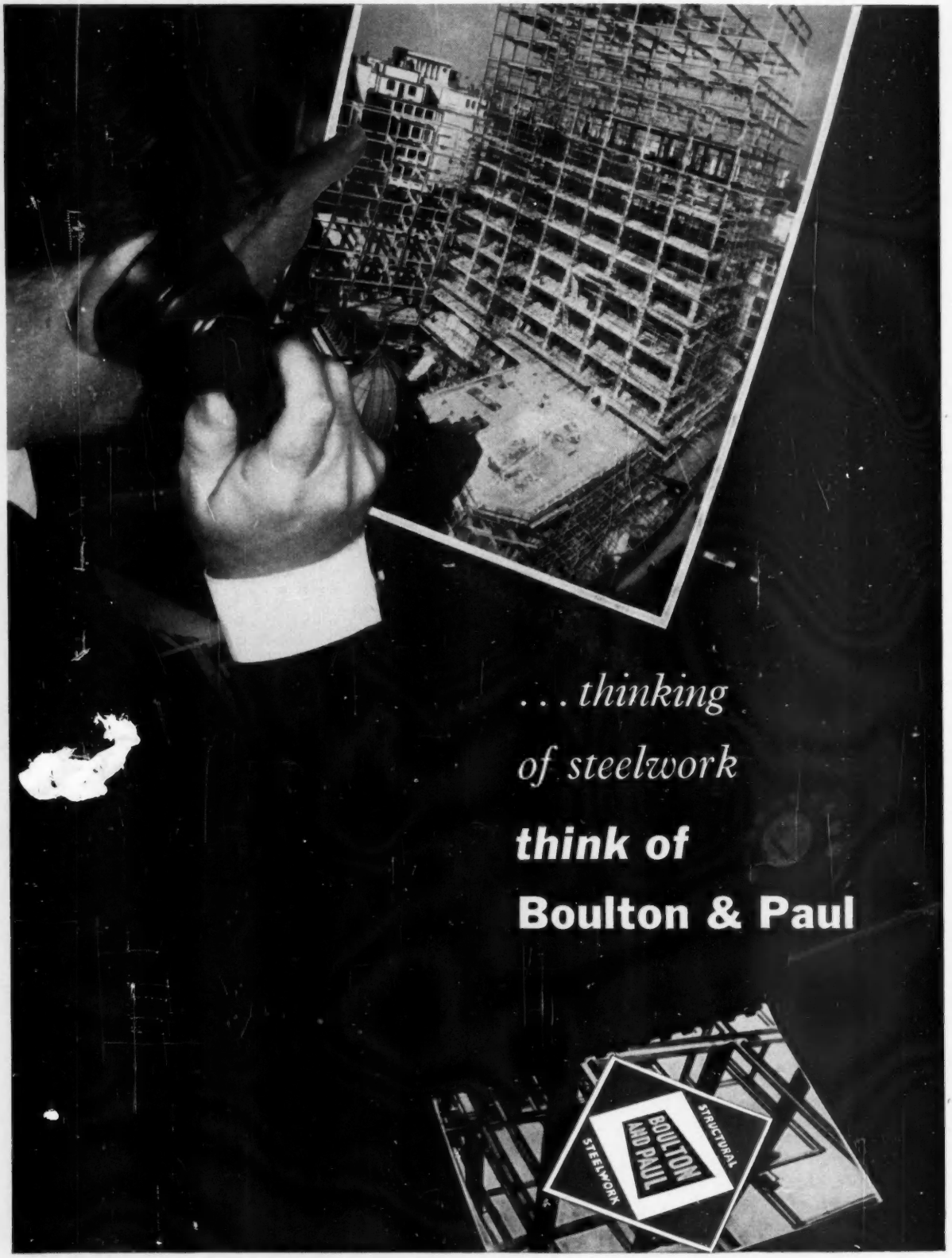

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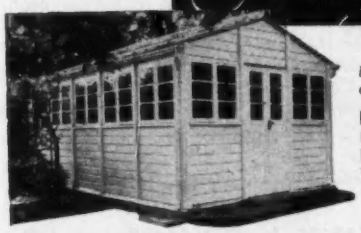

Illustration shows a concrete schoolroom.

Manufactured in North Midlands by BOWSER, MONKS & WHITEHOUSE LTD. Doncaster.

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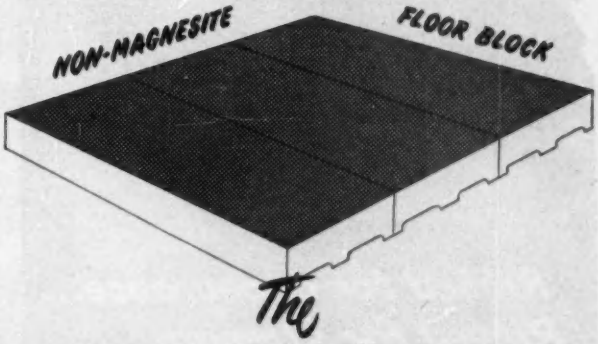

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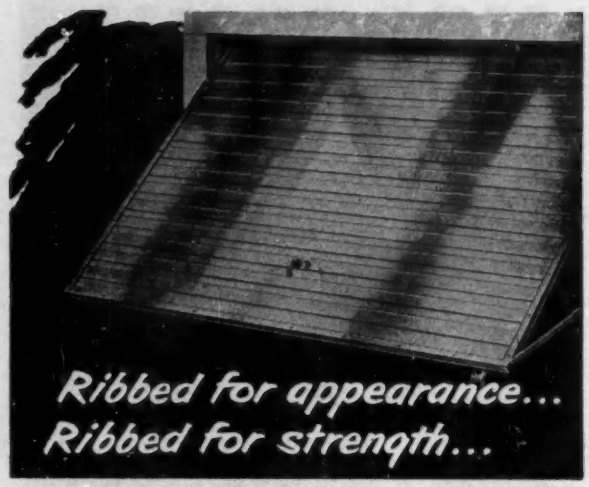

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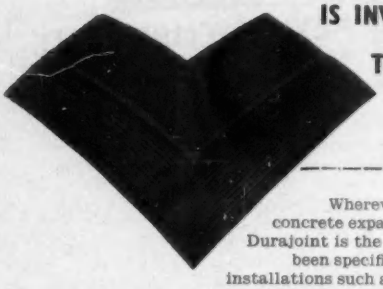

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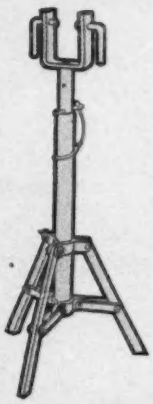

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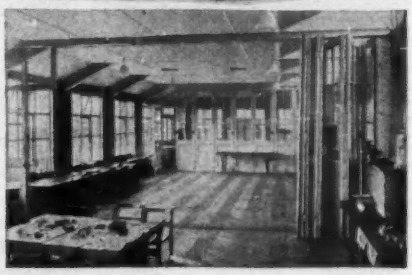

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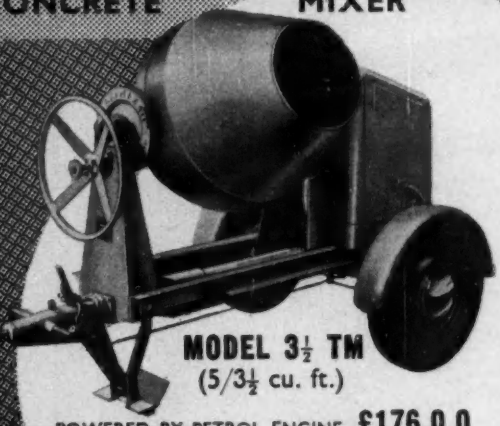

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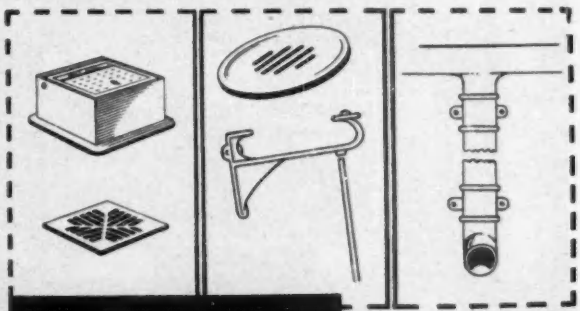

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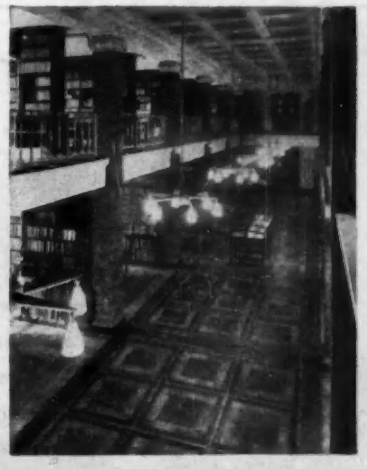

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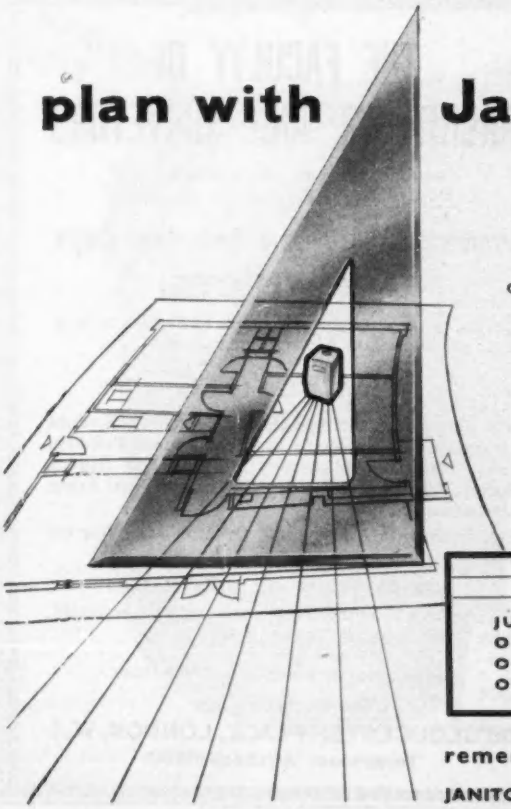

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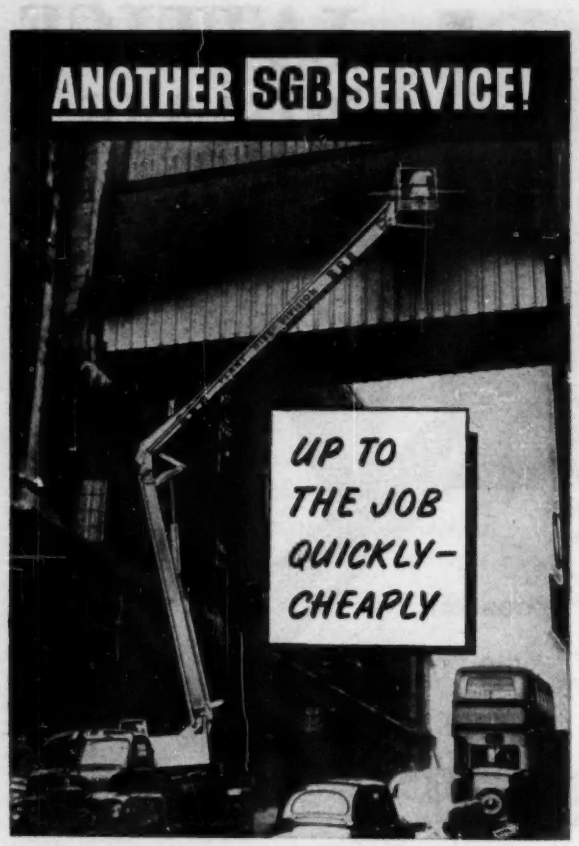

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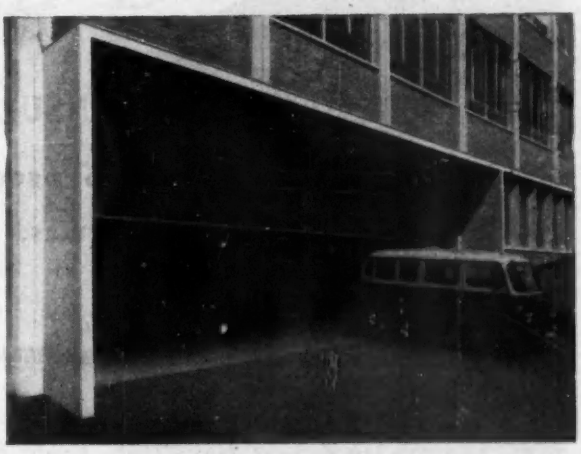

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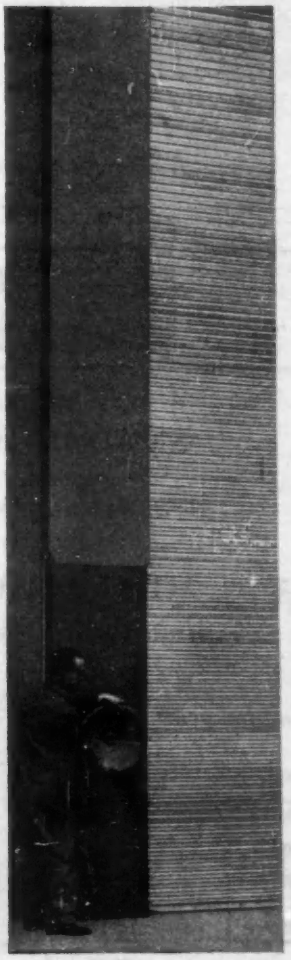

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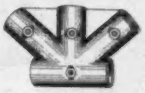
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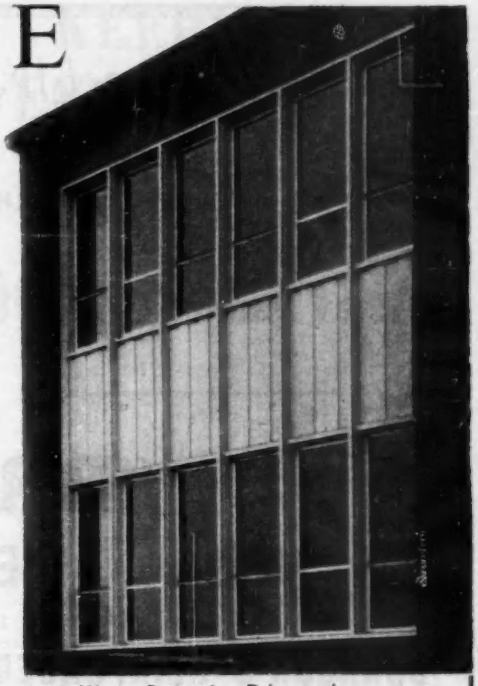

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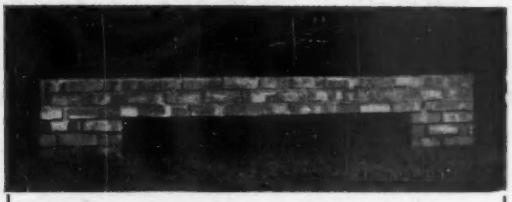

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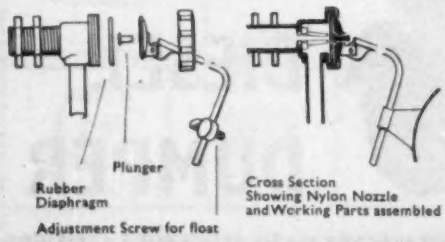

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TROUBLE-FREE because:—No working parts are in water and no sticking can occur as with the old piston type of fitting.

Cavitation of the seatings is greatly reduced if not entirely eliminated, giving the valve a trouble-free long life many times that of an ordinary ball valve.

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MAIN FEATURES: The main features of the *Kingley B.R.S. Ball Valves* are as illustrated, a nylon nozzle shaped to overcome cavitation and a rubber diaphragm which stops the flow of water when pressed against the nozzle by a plunger. The diaphragm keeps the moving parts of valve dry and free from corrosion and incrustation.

★ Three different designs of lever arm, *i.e.*, 9"; 10½"; also cranked to suit old pattern Burlington Cisterns.
★ Length of thread up to 2" for fitting to thick walled cisterns.
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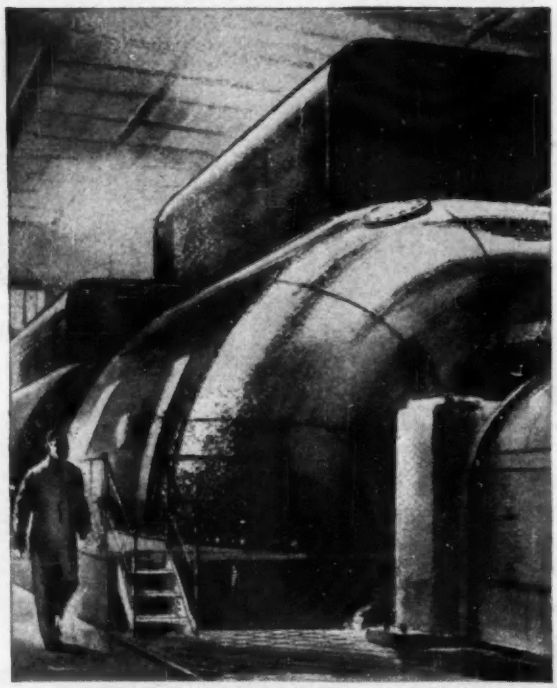

The world's largest Generators will help to fill the demand for still more power

The development of nuclear energy for generating electricity is still front-page news. Less publicised, though no less outstanding, are new developments in "conventional" generating plant. The turbo-alternator shown here is a 550,000 kilowatt unit – twice the capacity of the next largest on order for the Central Electricity Generating Board. It has been designed for the projected new power station at Thorpe Marsh. For Blythe 'B', another new station, 275,000 kilowatt in-line units are on order. They will be powered by steam at 2,350 lb. per sq. in. and 1,050°F, with reheat to 1,000°F.

Nuclear power will play an important part in meeting the ever-increasing demand for electricity. Work is now in progress on the first three nuclear power stations, at Bradwell, Berkeley and Hinkley Point. By 1966/7 some 5 to 6 million kilowatts of nuclear-generated electric power will be available.

Though these projects will not be completed for some time, the Central Electricity Generating Board plays an important part in today's fight against inflation. Power stations are being built at a cost no greater than in 1948 – £50 per kilowatt installed. And, although the output of the industry has doubled since 1948, the increase in manpower is only about one-third.

By providing today for the power we shall need in years to come, the Central Electricity Generating Board is building a secure foundation for our future prosperity.

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THE CENTRAL ELECTRICITY GENERATING BOARD

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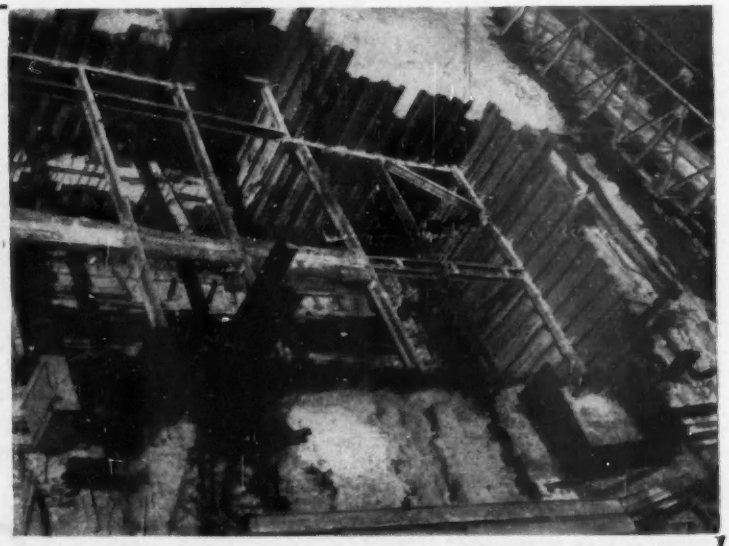

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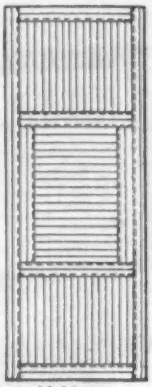

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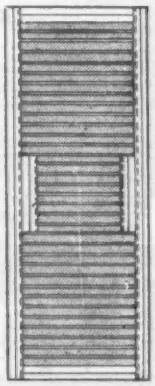

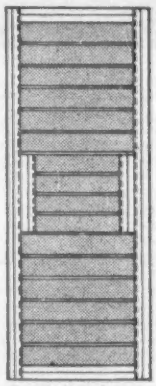

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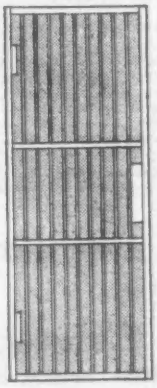

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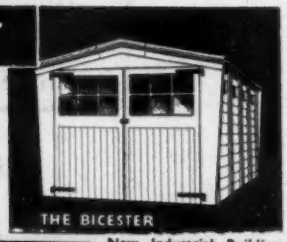

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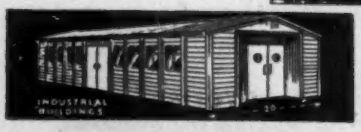

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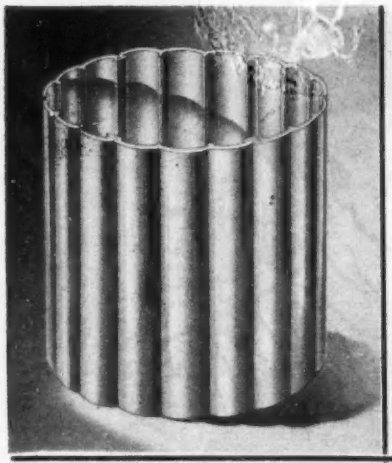

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These attractive extrusions are stocked in 16′ 0″ lengths. The standard width is 6″. Supplementary corner sections and trims complete the range.

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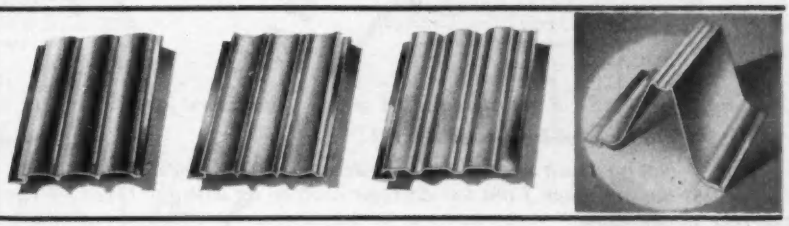

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" Plain wood I suppose, Dad ? "

" *Not so much cheek ! I've ordered A.B.M. Black Plastic Seats. Just because I am over 50, it doesn't mean I am too decrepit to keep up with the times—I can still teach you a thing or two about seats.*"

" What's so special about A.B.M. seats, Dad ? "

" *Experience, that's what's special. Experience in the manufacture of Plastic Toilet Seats. I have been fitting A.B.M. Vanguard Seats since* 1933 *with every confidence.*"

" It's unusual to hear sales talk f.om you, Dad."

" *I know, but A.B.M. seats are worth talking about. The hinges are fully adjustable to suit varying shapes and lengths of pan and four rubber washers correct any unevenness in the top of the pan. They make my job of fitting very simple.*"

" Can the hinges or rod corrode, Dad ? "

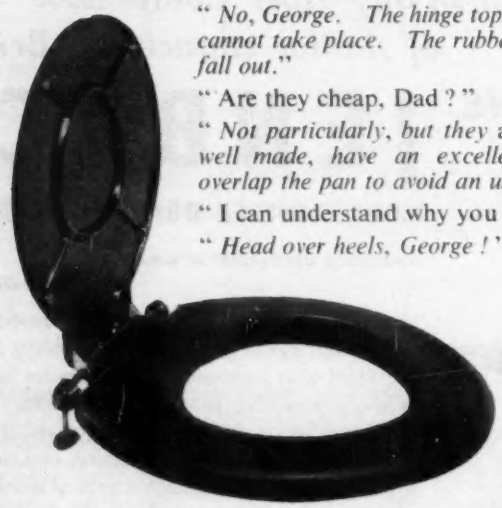
" *No, George. The hinge tops are plastic and the rod ebonite, so ugly corrosion cannot take place. The rubber buffers are secured without metal so they can't fall out.*"

" Are they cheap, Dad ? "

" *Not particularly, but they* are *reasonable in price. A.B.M. Seats are very well made, have an excellent non-absorbent scratch-proof finish and they overlap the pan to avoid an unsightly gap between pan and seat.*"

" I can understand why you have fallen for A.B.M. seats, Dad."

" *Head over heels, George !* "



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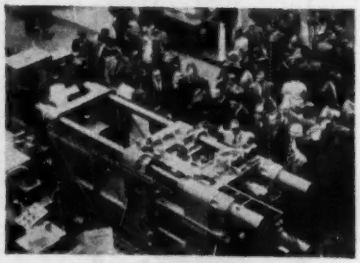

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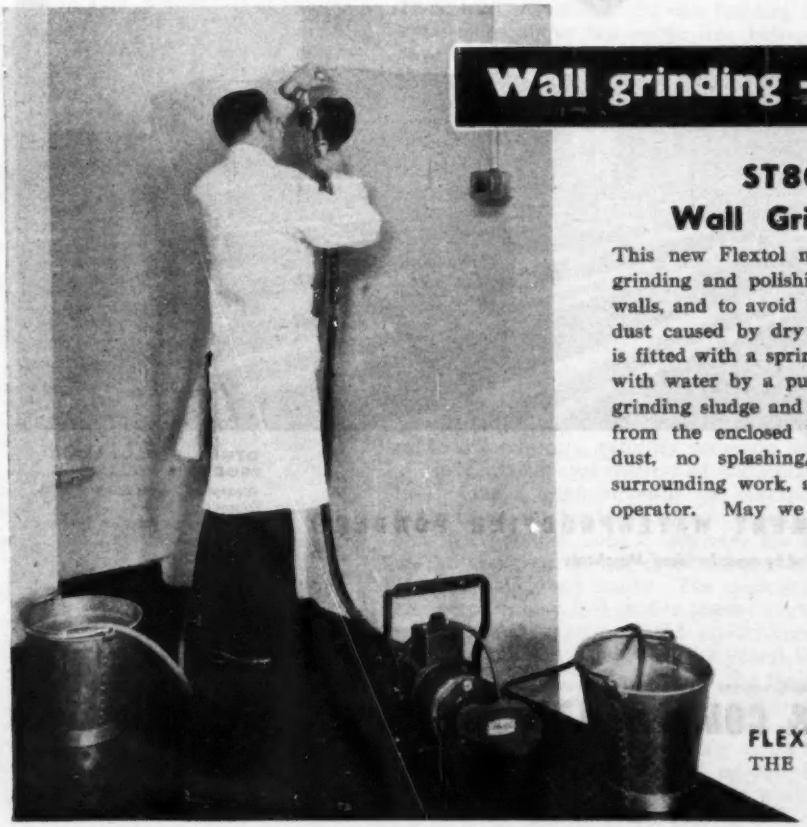

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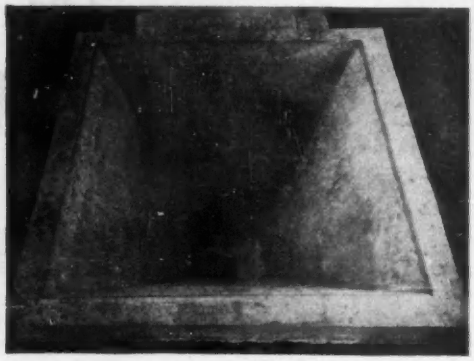
AP 237

Ingenuity

This large greenhouse was constructed by Messrs. C. Zwetsloot & Sons with their Nursery labour. The structural framework is iron tubing with welded joints and conveys hot water from a stand pipe with flexible coupling. When the plants have finished flowering, the whole of the greenhouse is moved forward to ground previously planted. It is transported over pulley wheels fixed in line on dwarf concrete piers, the heat being uncoupled and re-connected to a stand pipe in the new position.

When additional greenhouses called for a larger Boiler House with an elevator pit, this too was constructed with Nursery labour. The depth of the pit is 16′ 6″ from ground level and, upon excavating, subsoil water was found at a depth of 7 ft. and water bearing sand at 13′ 6″.



Completed pit surrounded by 9′ 6″ head of subsoil water.

Waterproofing was effected by the inclusion of 4 lbs of 'PUDLO' Brand Waterproofer to each 100 lbs of cement in a 3 : 2 : 1 mix. A copy of the specification and descriptive Booklet will be sent upon request.

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ARCHITECT
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NEWS SUMMARY

NAMES of the four firms of architects who are to compete in the final stage of the competition for the design of Churchill College, Cambridge, were announced. p. 805

THE WELSH SCHOOL OF ARCHITECTURE is to appoint a Reader to be responsible for research in architecture. p. 819

THE QUESTION of the exclusion of the Federation of Master Builders from the National Joint Council was raised in Parliament. p. 821

BIRMINGHAM COPORATION has approved the use of lift-slab construction for three blocks of 9-storey flats. p. 821

MAIDSTONE BC is not to accept tenders for over £1,000 unless the tenderer certifies that he has a specified number of apprentices in his employ. p. 822

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THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVI May 1st 1959 No. 6057

UNIONS' CONSTRUCTIVE CONFERENCE

SIR RICHARD COPPOCK, to whom the Federation of which he is general secretary—indeed the whole building industry—owe much for his work for organised building labour over the past 38 years, has done nothing more imaginative and forward-looking than in advising his Federation to convene the conference, concluded in London last Friday, which discussed the effect on the building worker of new materials and constructional techniques.

To the trades unionist, new techniques have varying implications. The organiser of building labour sees them as a fruitful source of demarcation disputes between unions; the educationist looks on them as disturbing influences dropped like rocks into the hitherto quiet pool of craft apprenticeship; while other tensions which they produce arise from uncertainty as to future craftsman/labourer wage policy—an uncertainty only aggravated by the existence of separate wage agreements for building and for civil engineering. Taken together, these varying implications add up to a pretty formidable problem which it was the purpose of the conference, if it could, to unravel.

The fact, of course, is that new materials and techniques have crept up on the building craft unions which had not prepared themselves to make room for the new kind of operative—men mostly drawn from the labourers' ranks, with an aptitude for the fitter/mechanic assembly trades required by processes such, for instance, as reinforced concrete or curtain wall systems. These men, essential to the new building but suspended vocationally at a point somewhere above the centre line between the craftsman and the labourer, have landed up in the arms of other unions, particularly the General Workers' Union, which negotiates special rates for them on civil engineering contracts and, not infrequently, on normal building sites too. The trouble which such duality of control provokes has been frequently demonstrated of late, though not all instances reach the public's ears as did the Shell site dispute.

The answer to this particular problem partly lies in there being one agreement for wages, not two; and the joint committee which the conference has agreed to set up will no doubt keep this in the forefront of its discussions: that a solution shall be forthcoming is something that affects the public as well as the unions concerned. The joint committee is also to consider means of introducing new techniques on a planned and agreed basis. Though builders are closely concerned, it is architects and structural engineers who mostly are responsible for devising new techniques or who specify new materials, and as such any deliberations should take these professions into account. Perhaps, when the proposed committee has settled down, a useful step could be the appointment, at regional as well as national level, of operative representatives to the Joint Consultative Committees at present drawn from the ranks of architects, quantity surveyors and builders.

There remain two matters of particular moment for the unions' consideration. One is apprenticeship, the other the aim that there should not be 19 different unions for building but, ideally, only one. Both matters are allied. It is not possible, even if desirable (as MR. GEORGE LOWTHIAN pointed out to the conference) that there should be 40-50 differing types of operative to service 40-50 sub-trades. The apprentice of the future (who, like his present counterpart, may find that to master such branches of his chosen trade as the present, largely emasculated architectural style demands for its execution does not take anything like five years) may well have his time divided, say, as to three years on one side of the traditional trades plus two further years spent learning some of the new techniques which, on occasion, displace his basic craft. But before such an objective could be achieved, there must come into being if not the ideal of one union for all building crafts and processes, then at least the grouping of unions with contiguous spheres of interest; failing either this or some amicable working agreement, demarcation disputes

could wreck the plan, and the craft unions find that they had played into other hands.

This conference—remarkable as it has been for constructive, forward-looking thought—will set more thinking in train, and SIR RICHARD COPPOCK and MR. JIM MILLS can be well satisfied with that. Yet, if its effects are not to be dissipated, something more than mere hard thinking will be needed—statesmanship of no small order, sacrifice of position in the common cause, the sinking of personalities, surrender of power. As a result of this conference the eyes of the building world are now on the unions; that they may go forward with courage to the successful completion of their self-appointed tasks will be the wish of all in the industry.

ARCHITECTURAL COMPETITIONS

THE decline in the popularity of architectural competitions in recent years is hard to understand. Since the war only one can be said to have been unsatisfactory—that for the new premises of the English Electric Company in the Strand. As against this there have been some outstanding successes, notably the Westminster City Council flats at Millbank, Coventry Cathedral, the TUC Building, Sheffield University, Nottingham University Halls of Residence and the Golden Lane housing scheme, to mention a few. Yet some building promoters, and, oddly enough, architects themselves, criticise the competition system as though it were almost certain to produce failures.

Most of the criticisms we hear are familiar enough, though those who make them seem to think they are new. Recalling a paper on the subject that Sir Percy Thomas gave at the RIBA in 1933, we looked this up and found that he mentioned most of the current arguments against the holding of competitions, as follows: 1. That they are wasteful and costly to the architectural profession; 2. That the architect is not in close touch with his client in the early stages of the job; 3. That promoters in general, and public bodies in particular, are unwilling to leave the final decision regarding the design of their buildings in the hands of an assessor; 4. That competitions are costly to promoters and involve delay in proceeding with the work; 5. That there is a danger in open competitions of an unknown and inexperienced architect being successful; and 6. That for a number of buildings, particularly those of a special character, experts or specialists should be engaged.

It is not possible here even to summarise the answers he gave to these points, but anyone who cares to look up the address* will, we believe, find them almost completely convincing; while his general remarks on competition conditions and regulations and the appointment of assessors are eminently reasonable. This paper would make an excellent basis of discussion for any proposed reorganisation of the system.

Whatever may be said against architectural competitions, there is no denying their two basic merits: 1. That they give promoters, at a comparatively small cost, the benefit of a variety of solutions to their building problem, from which ideally the best is selected; and 2. Provide opportunities for men of talent, who might otherwise languish in obscurity, to show their capabilities. But for the competition system many distinguished architects, past and present, might never have been heard of, and without their works the architecture of this country would be immeasurably the poorer.

The system is not perfect and, like many other human institutions, may never become so; however well it worked there would probably be always some disgruntled unsuccessful competitors. No doubt it is mainly such who write to the Press complaining about dissatisfaction with awards, with assessors, and indeed with the whole system. Some of these grumblers are not particularly well up in their facts. For instance, there are some who think that the two-stage type of competition started in 1954. They may be reminded that as far back as 1914 the Board of Trade Offices, Whitehall, competition was held in two stages, as also was the Masonic Peace Memorial competition a few years later; and those who pin their faith to the 'two-stager' may be interested to know that in the judgment of acute observers at the time both were won (respectively by Vincent Harris and Ashley and Newman) in the first round.

The time has come for a thorough re-examination of the competition system with a view to finding out the causes of its present decline and deciding what changes, if any, are needed in the conditions and regulations to bring them into accord with contemporary ideas; no doubt, the Royal Institute has this in hand. It would be a serious loss for all parties and against the best interests of architecture if the system were allowed to lapse for want of attention. In the meantime, architects and journalists might call a halt to criticism; they are doing a great disservice to the profession by raising doubts in the minds of promoters.

* 'The Builder,' April 28, 1933.

Notes of the Week

Churchill College Architects

THERE may be architects who view the immediate professional future with some despondency, but the offices of the four firms which have been selected to take part in the final stage of the Churchill College competition will hardly complain that the next two months at least are likely to be slack. Their designs for this Cambridge building are called for by the end of June, little enough time for preparation of schemes for a project of this magnitude.

All four finalists — Chamberlin, Powell and Bon; W. G. Howell, Killick and Partners; Richard Sheppard, Robson and Partners; and James Stirling and Gowan—are from the younger flight of architects; all are London firms, and two have already won a high reputation in the architectural field. Two—Messrs. Howell and Killick and Messrs. Stirling and Gowan—are more recently established but the fact that they have won places from the stiff original competition is significant. None of the designs submitted for the first stage is yet to be published, although it is expected that all 20 will be put on public display when the final choice is made after June 29.

* * *

THE FOUR FINALIST FIRMS carry some responsibility for the good name of the competition system, for Churchill College Trustees have carried through their plans in face of heavy criticism of the form which the competition has taken, being neither a limited competition in the normal sense nor an open one. To some extent also the original choice of firms weighted the scales against finding any but *avant-garde* designs, and to that extent also the competition loses both in interest and, possibly, in end-product. That this severely limiting factor has been introduced is, of course, no concern of the competitors who will carry the good wishes of all as they come up the straight.

Mr. Raymond Erith, FRIBA, who has been elected an Associate of the Royal Academy

Architect ARA

CONGRATULATIONS to Mr. Raymond Erith, who has been elected Associate of the Royal Academy. Mr. Erith is what Mr. Arthur Kenyon would call 'craftsman-architect.' Regular attendants at the architectural room of the RA in post-war years remember with pleasure some of his designs which struck a note in which traditional influences were freshly treated. He is at present carrying out a design for a new Library at Lady Margaret Hall, Oxford, and is also architect for the reconstruction of No. 10 and 11 Downing-street.

Many will remember Mr. Erith's criticism of RIBA students' work in 1955, in which he urged students, while not going back to the Orders, to accept tradition in principle and certainly to stop avoiding traditional forms and methods. 'The rejection of tradition is a dead end that is leading nowhere and can lead nowhere,' he said. 'The only course which can possibly have any future is to accept the broad stream of tradition as a whole and then enlarge and expand it. Architecture,' he added, 'should move with the times and I think you could make it move with the times if you knew what it was that you wanted to move.' Mr. Erith will bring qualities of good sense and scholarship to the Academy which should be considerable acquisitions.

GUILDFORD CATHEDRAL

A final effort before the dedication next spring to raise the sum of £175,000 needed to build the West end of Guildford Cathedral was announced last week by Lord Bridges, vice-chairman of the Cathedral Council. As readers will have seen from the illustrations given in our issue of January 16 last, the Chancel, side chapels, the crossing and the galleries have been completed, though some finishing work remains to be done. The West end is to be tackled immediately and carried forward from the present state as shown in the view reproduced. Local sources, Sir Edward Maufe, the architect, tells us, have done magnificently but the time has now come to make a wider appeal for this—the first Cathedral to be built in the South of England since the Middle Ages. Architects and the building industry outside the county of Surrey may feel this to be a cause worthy of their full support. Donations to Diocesan House, Quarry-street, Guildford, Surrey.

The unfinished West end of Guilford Cathedral

'Three Centuries of Swedish Pottery'

THIS LOAN EXHIBITION at the Victoria and Albert Museum (until May 31) is not only the first there since the war to be exclusively devoted to ceramics; but also displays effectively representative samples from the famous Rörstrand factory, which has the longest continuous history in Europe, writes Basil Marriott.

The arrangements for this notable event had the co-operation of the Stockholm National Museum, which provides the bulk of the material, and many other lenders include the King of Sweden: the display is correspondingly impressive. The period within the date-brackets 1726-1959 is also of great social as well as art-historical interest, and the excellent setting of the exhibition by Gunnar Myrstrand underlines the sense of continuity.

There is much to interest architects, there being for example close parallels with the engaging—and beneficial—adoption and slight 'robustication' by Sweden of such borrowings as the baroque and rococo styles. Moreover, several 19th century underglaze-printed pieces are decorated with architectural vignettes. There is among them a charming Castles series including the romantic Gripsholm in its lakeside setting which remains so hauntingly in the visitor's memory.

The modern work is typical of Sweden's enthusiastic and realistic acceptance of contemporary needs both technical and social. Such everyday items as oven-ware, kitchen jars and dinner-services are treated with as much (or indeed relatively more) care and perception as the earlier 'one-off' treasures from the Rörstrand storehouse. But there is, between the frankly mass-produced and the end of the 'historical' period, an interesting transitional phase represented by hand-thrown stone-ware and other individual pieces.

If the decorated ware is a little cliché-ridden, it is perhaps welcome evidence of willingness to enter the hurly-burly of 'international modern.' Some of our own potteries who are not backward in this, and have almost as long a history, may well envy a showing in such privileged surroundings—and I may add that it was a foreign potter who pointed this out to me.

RIBA Prizes for Schools

THE RIBA offers annually for competition between boys and girls of public and secondary schools, prizes totalling 20 gns. in value for the encouragement of interest in architecture. Prizes will be given (a) for the best original essay of not more than 1,000 words illustrated by sketches dealing with a building or group of buildings with which the competitor is personally acquainted; and (b) for the best sketches or scale drawings of a building or part of a building in pencil, ink or colour. For the competition in 1959 all work must be sent so as to reach the Secretary, RIBA, 66 Portland-place, W1, by September 25 next.

Forward-looking Training

AN OPPORTUNITY of seeing at first-hand one of the courses organised by the Eastern Federation of Building Trades Employers confirms the impression that this area of the National Federation takes a long-sighted view of the importance of mixing in with technical instruction of its apprentices, foremen and junior executives something of a wider and more liberal nature. The course arranged recently for senior apprentices at Ipswich by Mr. Robert Porter, the Federation's Director, and led by him and Mr. Gordon Bayley, area secretary, was an example of how such a training residential week-end should be run and of the response that may be expected from an intelligent group of apprentices in discussion on problems facing not only themselves but the industry. They were fortunate in their tutors, not least in Mr. C. E. Wadley, a vice-president of the Federation, whose clear and candid analysis of the organisational problems of a medium-size builder's business aroused wide interest among the thirty craft apprentices who comprised the course.

* * *

ANOTHER SESSION well received was a talk by Mr. Douglas Harding, ARIBA, based on slides and notes prepared by Simon Bennett and David Sutcliffe, AA/RIBA, under the auspices of the ad hoc committee on visual education at the RIBA, and sponsored by the Essex, Herts. and Cambs. Society of Architects. Nearly 100 colour slides accompany this 'Accident or Design?' lecture which touched on the care and development of town and countryside, the design of buildings and manufactured articles—in fact, the whole paraphernalia of modern life and the visual layout of our surroundings. This kind of talk, attractively illustrated, well put over and giving an audience opportunity for expressing an opinion, can do more for architecture and design than any exhibition. It is a form of architectural education and publicity which should be used by more of the Allied Societies.

THE WAR OFFICE

Organisation of Architect's Department

IMPLICATIONS of the action decided upon early last year, following the recommendation of the Weeks Committee, to place a civilian architect instead of a senior Army officer in charge of all building work undertaken on behalf of the War Office, both at home and overseas, were explained to a representative of *The Builder* last week by Mr. D. E. E. Gibson, CBE, FRIBA, who was appointed as Director-General of Works in March, 1958, to fill this newly created post. Although Mr. Gibson was not able at this stage to go into much detail about his future plans, the importance of the appointment to architects and the building industry may be judged by the fact that the War Department's expenditure on new building at home and abroad during the next five years is expected to be of the order of £20m. annually.

Mr. Gibson emphasised that, although the organisation of what is virtually a newly created department is by no means complete, the department is nevertheless already a 'going concern.' One of the most important changes is that the department is now headed by joint administrative and technical services at equal level; formerly, technicians always came under the administrators. The change means that responsibility for expenditure will in future be shared jointly between Mr. Gibson and Mr. William Geraghty, whose appointment as Assistant Under-Secretary of State (Works) was announced at the same time as Mr. Gibson's.

An important change made by Mr. Gibson in the administration of his department has been to shorten the 'pyramid of organisation,' so that there are fewer intermediaries between those in authority and those who actually carry out the building work. The intention is to run the organisation in groups of about eight architects, in order to give the sense of a little partnership within the big "firm." The architects within such a group will be responsible for all the work on a particular building scheme, on the lines already successfully practised in certain county architects' departments. An additional advantage of the group system is that it will enable jobs to be shared out more fairly among the staff, and it is hoped that all architects will take their turn as a job architect within a group.

The other great departure from established practice is that the War Office architects, with the help of their colleagues such as quantity surveyors and engineers, will be responsible for the whole process of building, from the design stage onwards through the supervision of erection to the issue of final certificates. The department is in process of recruiting staff to make such changes possible, and young architects who now join the War Department can thus be assured of a fully professional career as an architect with the sort of scope and responsibility that they would enjoy in any normal architect's office.

Mr. Gibson has already worked out a scheme whereby his department will have taken over responsibility for all building work in Commands, both at home and overseas, by the end of 1960. The work within Commands will be divided into two sections: all major works will be directed from headquarters; but all maintenance works will be organised at Command level. Thus in each Command the department will have its own civilian works office. Although adequate architectural advice will be available, the maintenance work within Commands will not be primarily architectural, but will be in the hands of electrical and mechanical engineers, maintenance surveyors, clerks of works, and so on.

D. E. E. Gibson, CBE

Finally, Mr. Gibson emphasised the great diversity of work undertaken by the War Department, which includes not only the obvious buildings such as barracks and married quarters, but storage depots, roads, factories, schools, cinemas, hospitals, swimming baths and museums, which, in years to come, should offer plenty of scope for an interesting architectural career.

CORRESPONDENCE

The RIBA Annual Meeting

To the Editor of *The Builder*

SIR,—Those attending the RIBA annual general meeting on May 5 may be interested in having their attention drawn to two items in the annual report:—

1. An expenditure of £550 for a portrait of the President.
2. An expenditure of £150 for the Architects' Benevolent Society.

May I suggest that it would be far better not to have these portraits in future—the walls of the RIBA are already being 'cluttered up' with them (they are now being hung in the darkened corridor leading to the staff lavatories), —and that the saving effected might be added to the somewhat 'miserly' sum of £150 now annually allocated to the ABS. This would pay the rates of a number of the buildings erected for the benefit of poor architects.

SIDNEY LOWETH
[FSA, FRIBA, FRSA].

2 Balfour-court,
Sandgate-road, Folkestone.

DSIR List

SECTIONAL LIST No. 3 has been issued by the Department of Scientific and Industrial Research and published by HMSO. The list has been revised to November, 1958, and is most helpful in finding references to the existing store of the results of building research.

SOUTH EASTERN ARCHITECTS

Annual Dinner and Dance

THE annual dinner and dance of the South Eastern Society of Architects was held at Tunbridge Wells on April 24 with the Society's President, Mr. R. A. Cooksey, TD, FRIBA, in the chair.

Proposing the toast of the RIBA, MR. COOKSEY referred to 'the very important overhaul' of the Royal Institute's constitution that was taking place, and said that this should result in bringing the South Eastern Society into even closer orbit with the central luminary than before.

After welcoming the President of the RIBA, Mr. Basil Spence, OBE, ARA, ARSA, and Mrs. Spence, Mr. Cooksey said it was very sad that the Secretary, Mr. Spragg, was unable to be present, but he had unfortunately succumbed to a bug that he picked up during the last part of his African tour.

Mr. Cooksey spoke of the increased interest in architecture that was being shown by the public, which was reflected in the increased space given to the subject by the national Press. Whether the RIBA's public relations committee or the activities of the Anti-ugly people were responsible he would not like to say!

MR. SPENCE, in the course of his response, gave a most interesting and lively account of his African tour. This had been a great experience, he said, but, nevertheless, after the 'killing programme'—on the worst day he made five broadcasts in addition to many other engagements—he could not help feeling how nice it was to be back in England enjoying a nice friendly Allied Society's dinner.

It was a surprising thing, said Mr. Spence, that despite the fact that the Royal Institute was founded more than a century ago, he was the first President of the RIBA to visit Africa officially. In Africa he found a great affection for the RIBA, and also a great liking for the RIBA *Journal*, which members in Africa said should be left alone and not radically changed.

Mr. Spence gave an amusing account of the party's Sudanese breakfast, which they had on their own as there was no one at the airfield to meet them on account of a revolution that had just taken place. He noted that Corbusier had been to the Sudan a long time ago—there were wonderful plastic houses in mud—and Henry Moore had obviously visited the Matoppo Hills centuries ago—witness the enormous boulders in all sorts of fantastic positions with holes bored right through them!

The toast of the guests was proposed by MR. J. L. WEBB, JP, LRIBA, chairman of the Tunbridge Wells Chapter, and the responses were by CLLR. E. CROUCHER, the Mayor of Tunbridge Wells, and the RT. REV. RUSSELL B. WHITE, the Bishop of Tonbridge.

British Hardwoods

A DSIR Forest Products Research Laboratory Leaflet, No. S2, entitled 'Grading of Sawn British Hardwoods,' has been published by HMSO, price 6d. The recommendations in the leaflet for grading British hardwoods have been prepared after consultations with a committee representing both producers and consumers.

COMPETITION NEWS

CHURCHILL COLLEGE

Four Finalists Selected

THE trustees of the Churchill College Trust have announced the names of the four firms of architects which have been selected from the original twenty to take part in the final stage of the competition for the Churchill College at Cambridge. The firms are:

Chamberlin, Powell & Bon, AA/RIBA, 15 Sydney-mews, SW3;

W. Howell, MA(Cantab), ARIBA, J. Killick, ARIBA & Partners, 82 South Hill-park, NW3;

Richard Sheppard, Robson & Partners, F/ARIBA, 5 Southampton-row, WC1; and

Stirling & Gowan, AA/RIBA, 37 York-terrace, NW1.

The designs in the second stage must be submitted by June 29. The assessors are Sir John Cockcroft, Mr. Noel Annan, Mr. Basil Spence, Sir William Holford and Sir Leslie Martin.

Housing Layout, Halesowen

'TO ENCOURAGE the latest and best in architectural design' Halesowen Borough Council is to invite architects to take part in a national competition organised under RIBA conditions for the layout of new houses and public open spaces at Highfields. This is part of the council's town centre redevelopment scheme.

University Library, New Zealand

THE ORGANISATION of an architectural competition for a new university library for the University of Otago, Dunedin, New Zealand, has been approved by the New Zealand Government. The building is to be of not more than 85,000 sq. ft. in area, and is to be built at a cost of not more than £400,000. It will provide for 600 readers and 500,000 volumes. It is the first building primarily devoted to a university library which has been built for many years.

COMPETITIONS OPEN

**The date in italics refers to the issue of* The Builder *in which fuller details appeared.*

CHURCHILL COLLEGE, CAMBRIDGE.—Competition, in two stages, for the design of College Buildings on a site at Madingley-road, Cambridge. Assessors are Sir John Cockcroft, Mr. Noel Annan (Trustees), Mr. Basil Spence, PRIBA, Sir William Holford, FRIBA, and Sir Leslie Martin, FRIBA, who have selected four firms (see above) to take part in final stage, closing date for which is June 29. Designs to the Secretary, Churchill College Trust, 200a City Wall House, Chiswell-street, EC1. *February 6 and May 1.*

LONDON HIGHWAY DEVELOPMENT.—Two-stage competition, arranged by Roads Campaign Council, for designs as individual or joint entries from architects, engineers, surveyors, town planners, landscape architects and others, for a long-term plan of highway development in the London area. Assessors are Sir William Holford, FRIBA, Prof. W. Fisher Cassie, MInstCE, and Mr. C. D. Buchanan, ARIBA. Mr. Conrad Andren will act as professional advisor. Not more than six entries will be selected at the first stage and assessors will not know until final awards are made the identity of second stage competitors, each of whom will be awarded £250. The authors of the designs placed first, second and third will be awarded additional sums of £1,750, £750 and £250 respectively. Conditions obtainable, on deposit of £2, from the Professional Advisor, c/o 'New Ways for London Competition' Roads Campaign Council, 15 Dartmouth-street, SW1, by April 30 (preliminary stage) and October 30 (final). *November 28.*

CERAMIC SANITARY WARE. — Competition organised by Associated Builders Merchants, Ltd. for architects and industrial designers to submit designs for various items of sanitary ware. Assessors are Mr. W. M. Goslett, Mr. C. J. B. Pratt, Mr. P. A. Newnham, ARIBA, and Mr. F. B. Pooley, FRIBA. The authors of the three best sets of designs will have the opportunity of collaborating with a manufacturer to be nominated by ABM Ltd., to produce full-size prototypes of the items they have designed. The final award will be made on the basis of the developed prototypes. Premiums offered: £1,000, £350 and £250 for designs placed first, second and third respectively. Final date for submission of drawings is May 2. Conditions from Associated Builders Merchants, Limited, at Broken Wharf, Upper Thames-street, EC4. *November 21.*

NATIONAL GALLERY EXTENSION.—Competition for the design of conjectural extension of the National Gallery on the 'Hampton' site to the west of the Gallery. Open to architects on ARCUK Register, and architects who are members of Allied Societies of the RIBA within the Commonwealth and RIBA students. First prize is £2,500, with a further £2,500 for distribution as the assessors advise. The assessors are Sir William Holford, Mr. W. A. Allen and Mr. Peter Chamberlin. The closing date for designs is May 8 (last day for applications April 6); and conditions from 'National Gallery Competition,' *The Sunday Times*, Kemsley House, WC1. *January 23.*

ELEVATED MOTORWAY.—Competition organised by the Prestressed Concrete Development Group, open to individuals or groups of individuals for designs for lengths of elevated road. Two premiums of £500 are offered, to be awarded at the discretion of the assessors who are—Mr. H. C. Adams, Ministry of Transport; Mr. C. P. Andrew, Traffic Engineer, University College, London; Mr. A. G. Jury, City Architect, Glasgow; Col. G. W. Kirkland, president of the Group; Sir Herbert Manzoni, City Engineer, Birmingham. Closing date June 30 next. Details from the Prestressed Concrete Development Group, Terminal House, Grosvenor-gardens, SW1. *January 23.*

ALUMINIUM STREET LIGHTING COLUMNS.—Competition organised by the Aluminium Development Association for lighting specialists, architects, industrial designers, engineers and other individuals and groups in open competition to submit designs for aluminium street lighting columns. Assessors are The Hon. Lionel Brett, FRIBA, Prof. Sir Alfred Pugsley, FRS, and Sir Gordon Russell, RDI. Prizes of £250, £100 and £50, with a student's prize of £75, are offered. Conditions and specification from the Secretary, the Aluminium Development Association, 33 Grosvenor-st., W1, to whom designs must be returned by mid-day on July 1 next. *March 13.*

'Their elevations are different but their foundations are almost the same!'

MEDICAL TEACHING CENTRE, CARDIFF.—Competition arranged by the Board of Governors of the United Cardiff Hospitals and the Welsh National School of Medicine for architects resident in Great Britain, Northern Ireland and Eire to submit designs for a proposed medical teaching centre in Cardiff. Assessors are: Sir Percy Thomas, P.P.RIBA; F. R. S. Yorke, FRIBA; J. H. Forshaw, C.B. FRIBA, Provost A. Trevor Jones, MD, and Dr. A. R. Culley, CBE, MD. Premiums of £5,000 (to be merged with the fee), £3,000 and £2,000 are offered. Applications for conditions may be addressed between April 10 and April 24 (latest date) to Mr. D. G. Morgan, secretary to the board of governors, United Cardiff Hospitals, Cardiff Royal Infirmary, Newport-road, Cardiff, accompanied by a deposit of £3 3s. Questions must be sent to the secretary to the governors on or before June 19 next, and designs must be sent in by April 30, 1960. *March 27.*

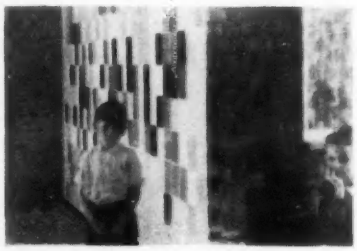
Leverhulme Scholarship, 1959

THE LEVERHULME SCHOLARSHIP, tenable at the Architectural Association School of Architecture, London, value £2,500, which includes payment of fees and maintenance for five years, has been awarded this year to Mr. Francis C. Duffy, 69 Durham-road, Blackhill, Consett, Co. Durham (St. Cuthbert's Grammar School, Newcastle-upon-Tyne).

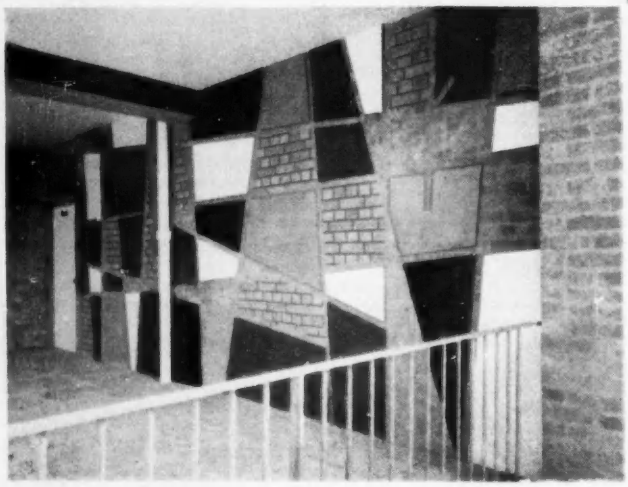
BATTERSEA HELIPORT.—Seen above is London's first heliport, opened on April 23 by Mr. John Hay, MP, Joint Parliamentary Secretary, Ministry of Transport and Civil Aviation. It has been built for Westland Aircraft Ltd. to a prefabricated system by W. J. Simms, Sons & Cooke, Ltd. The architect was Mrs. C. Oboussier, ARIBA

ARTISTS AND ARCHITECTS

An LCC Experiment with Artists as Consultant Designers



Tiles and mosaic at St. Mathew's Estate, Upper Tulse-hill, Lambeth



left and below : *Decorated brickwork in the covered play spaces at Renbold-place, Greenwich. Wooden shapes were applied to the wall and the exposed areas covered with ½ in. sand and cement render. The wooden shapes were removed and the relief panels of cement were painted. The work was carried out on site by the consultants*

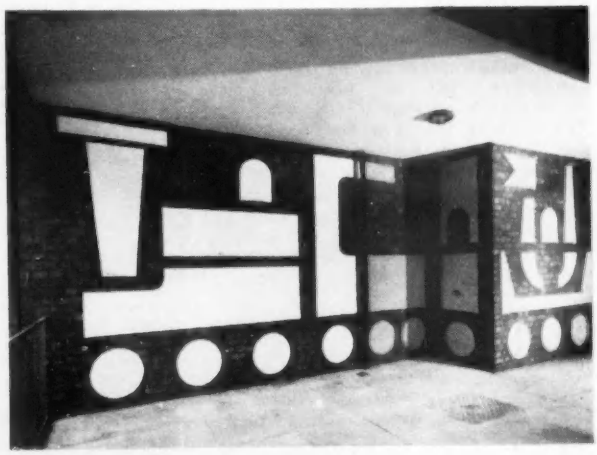
AN interesting experiment has taken place in the Architect's Department of the London County Council where, with the approval of the Housing Committee of the Council, two young artists, Anthony Hollaway, ARCA, and William Mitchell, DesRCA, have been collaborating with the architects concerned in the design of a number of blocks of flats and other buildings on housing sites. The artists were engaged for a year in the first instance, but the experiment has been so successful that the Housing Committee recently decided to retain their services for a further year. The work carried out has been of a very varied nature and has included the actual execution of decorative treatment, experiments with new materials and novel uses of existing materials, and advising architects on suitable locations to receive special enrichment.

The artists have joined with the architects on a continuing programme of work, thereby enabling experience gained on one project to be carried forward to the next. The close liaison between architect and artist has been of benefit to both : the artist, fed with technical knowledge on materials and methods, has been stimulated to develop new forms of decorative treatment appropriate to them and the architect in turn has been able to bring a fresh approach to standard materials and techniques.

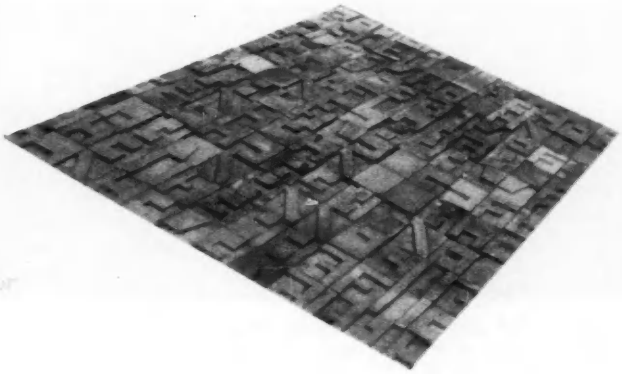
The artists, working for most of the time on location, have found themselves and their art much more directly projected into the everyday life of the ordinary people than is customary with studio executed commissions.

The methods used have had to be practicable and capable of speedy completion—at costs (apart from fees to the consultants) within those of the normal facing materials they replace.

Other interesting techniques used, apart from those illustrated, included the use of vinyl plastic as a moulding material. This material was used to reproduce a number of decorative motifs for the rehabilitation work at the Brandon Estate, Southwark. The motif was reproduced in clay by the consultants who then prepared the mould and produced the first cast. The contractors then made the remainder of the casts on the site. This method provides a crisp cast without using a complicated piece-mould.



Relief decoration at Derby-hill Estate, Lewisham, produced by applying shaped wooden forms to the shutter boards which were placed in position by the contractor before the concrete was poured



A section of quarter scale models of pre-cast concrete slabs to be used as cladding for the end wall of a 19-storey block in Tidey-street, Poplar. The slabs act as in situ shuttering and provide low relief decoration

Artists and Architects: An LCC Experiment

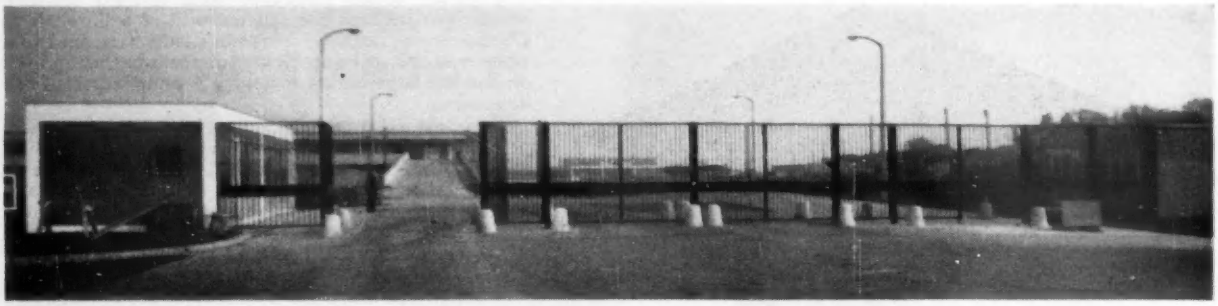
Inlaid polyester resin murals at Brooklands-park, Greenwich. The design was incised on chipboard panels, filled with pigmented resin, coated with clear resin and polished. The work was carried out on the site and will require no further treatment or maintenance

A simple stencil technique using sprayed coloured cement was tried on the external wall of a lift shaft at Cleveland-way, Stepney. Plasterer's laths were fixed to a white rendered wall and coloured cement was then sprayed on and the laths removed, leaving a white stencilled line decoration.

A method using a mosaic of broken and cut tiles was used in the ground floor lift halls of two blocks at Squirries-street, Bethnal Green. The design was drawn directly on to a cement-surfaced wall and tiles cut and fitted in place using a tile-fixing compound. The coloured tiles used were those occurring in the lift halls throughout the block. The spaces between the chippings were filled with black cement. The whole was then cleaned and polished. This method utilises chippings of tiles which would otherwise be wasted, presents a very hardwearing surface and is considerably quicker than traditional mosaic techniques. This work was carried out on the site.

Another mosaic was carried out at the Ladywell Lodge site, Chudleigh-road, Lewisham. Here small cubes of waste natural coloured woods were stuck to a board by means of polyester resin which also filled the interstices between the blocks. The whole was then sanded flat and polished.

Other techniques used are murals in standard coloured glazed tiles, decorative brickwork, a relief concrete mural with a coloured plastic glaze, a plant stand in pre-cast concrete, pierced screen walls in concrete and 1-in. thick glass slabs and a Sgraffito in cement render for the Club-room at the Brandon Estate, Southwark. Here the consultant works with the plasterer, modelling the plaster as it is applied, with special tools. The whole is then painted with one colour and the surface rolled with another colour, so providing an easy means of redecoration.



The gates at the goods vehicle entrance. The ramp leads to the unloading area at first floor level on the warehouse

FACTORY at Kitt Green, Lancashire

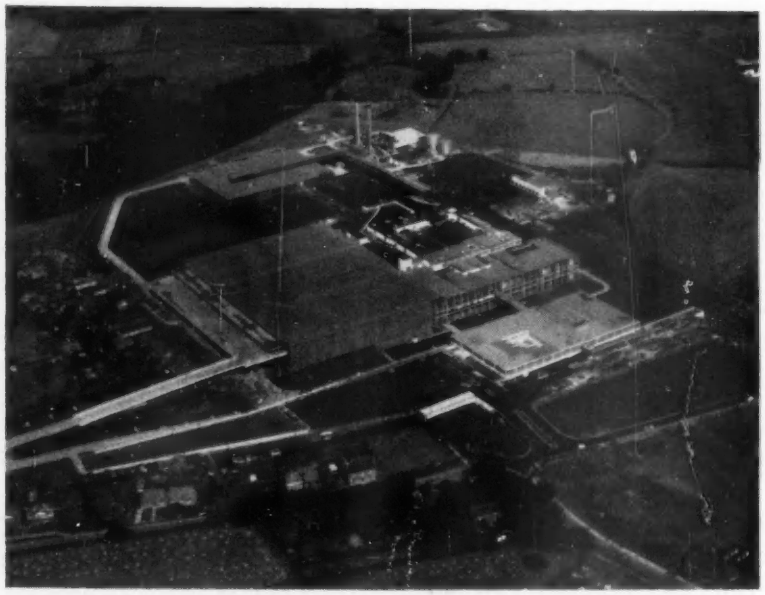
for H. J. Heinz Co. Ltd.

Architects:
J. DOUGLASS MATHEWS & Partners
in association with
SKIDMORE, OWINGS & MERRILL

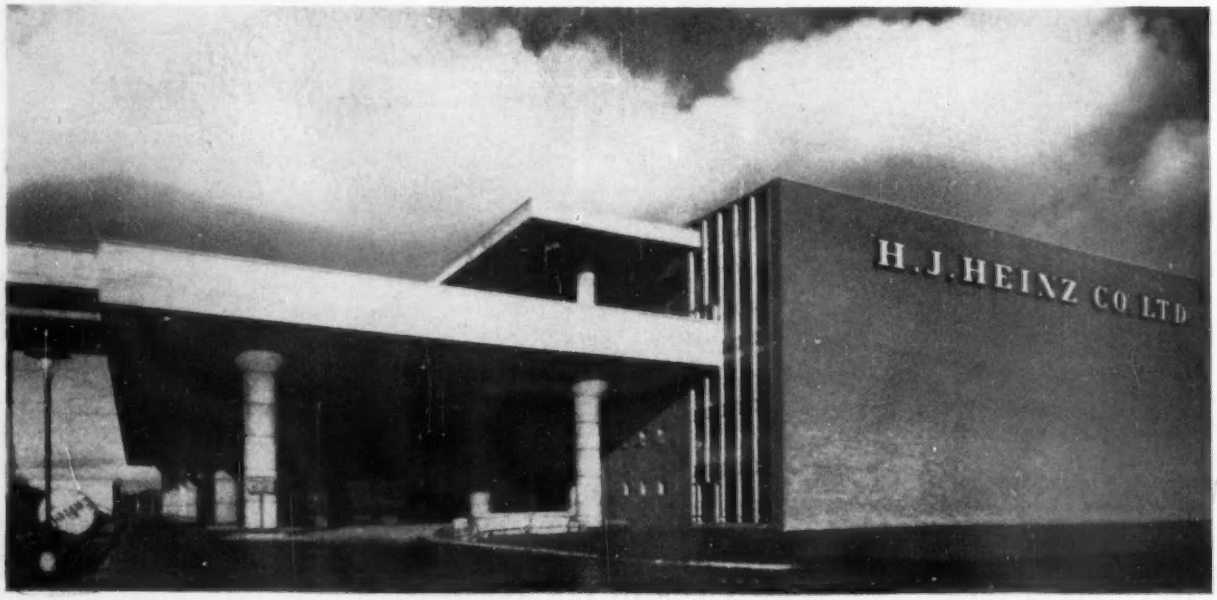
General Contractors:
A. MONK & Company, Ltd.

Structural Consultants:
General Works, A. C. ASTON; ramps, loading platform, canopy, road bridges, KAYLOR & PICK Ltd.; personnel bridge, NIELS LISBORG; supervisory, R. T. JAMES & Partners.

Other Consultants:
Quantities, A. BOXALL & Partners; mechanical and electrical, G. H. BUCKLE; drainage, trade effluent and water cooling, JOHN TAYLOR & Sons; soil analysis, LE GRAND, SUTCLIFFE & GELL; furniture and fabrics, SHEILA NICHOLSON; site surveys, DULOP HEYWOOD & Co.



above : *The building, almost completed, from the south*
below : *The unloading platform at first floor level covers the loading area at ground level*



THE site, which was bought prior to the appointment of the architects, has a considerable gradient—roughly 1 in 40—representing some 15 ft. to 20 ft. over the present length of the main building. Although extensive—some 127 acres—nearly half of the site could not be used for building owing to old coal mines beneath. A further 8 acres, forming the bank to a stream on one of the boundaries, were too steep for practical building purposes. The practicable part of the site is on the brow of a hill commanding a fine view eastwards over pleasant countryside.

The client required storage areas of 310,000 sq. ft. overall, food production areas of 330,000 sq. ft., a separate can-making building and workshops totalling 60,000 sq. ft., an appropriate administrative building and boiler house. The factory will employ about 1,800 day and 500 night personnel.

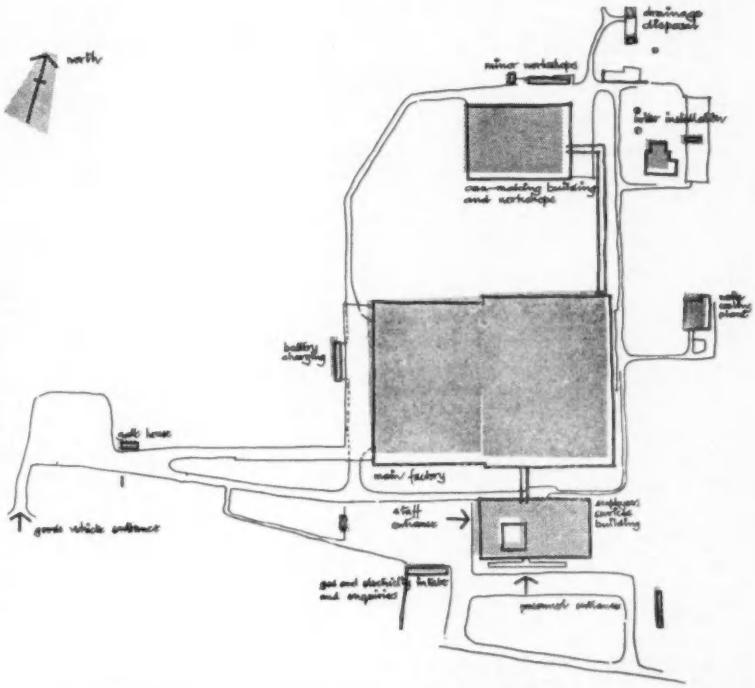
Very considerable expansion was expected. It was established at an early date that administrative facilities limited permissible production expansion to about 50 per cent., though warehouse expansion could be considerably greater.

Owing to the many different processes covering the manufacture of beans, spaghetti, soups, baby foods, etc., and the varying outputs of those commodities required from time to time, maximum flexibility was required. The factory was to be designed in such a way that alterations in plant layout, both after completion and also up to a late date before completion, could be made without difficulty. The need for flexibility was increased by the ever-changing nature of machinery available for food production.

Although detailed processes vary with different commodities the general 'line' for all is similar. It can be compared with operations in a domestic kitchen on a very large scale. Food requires to be washed, cut up and prepared and put into cooking utensils. From these, after cooking, it flows into filling lines where it is canned. After the cans are sealed they pass through a sterilizing process before being packed, labelled and delivered to the warehouse for despatch. With many foods pumping is not permissible and a fundamental requirement in many of the lines is a vertical drop of some 30 ft. for gravity flow to and from the cooking utensils.

The size of the project and the restrictions of the site, taken together with expansion requirements, suggested consideration of two-storey as well as single-storey conceptions. By the use of site gradient and ramped roads it was found possible to introduce two working levels—a high level for unloading, storing, preparing and cooking and a low level for filling, sterilizing, packing, warehousing and despatch. These two levels obviated the use and maintenance of elevators to give the gravity flow required in many of the processes. They added force to a two-storey argument.

Maintenance considerations also favoured a two-storey choice. The architects advised against the use of north light and similar structures, preferring to follow the American practice of using artificial light and a simple maintenance-free roof covering. Roads and drainage were kept to a minimum and distances of travel, e.g., personnel to and from the canteen, services to and from equipment, were also considerably reduced.

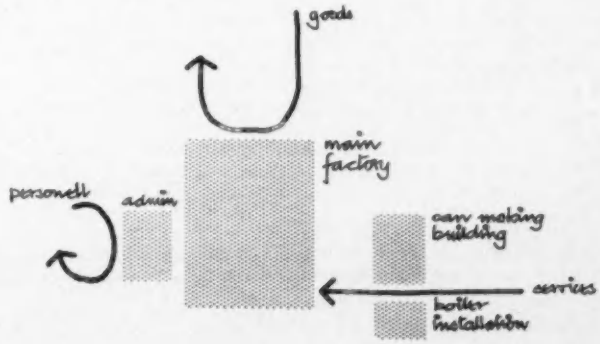


Factory at Kitt Green, Lancashire

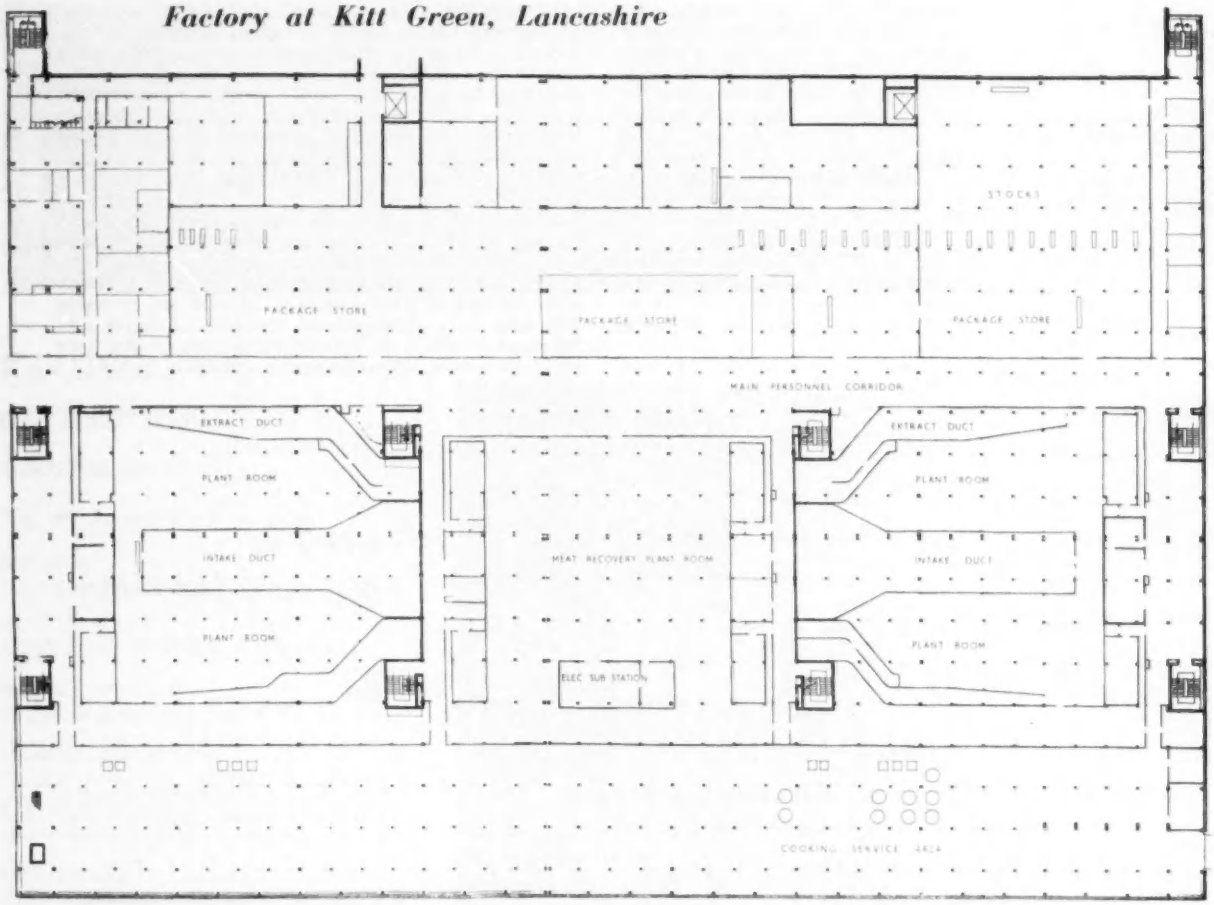
A sketch plan of the site showing the layout of the buildings and the road system. In the aerial photograph opposite, the roof of the production block is being finished and a section of it appears to merge into the background. The production block is actually slightly wider than the brick warehouse block

The solution may best be judged from the photographs and drawings. The road ramps leading to the two levels can be seen. Height requirements for the warehouse on the one hand and for the production floors on the other made possible the introduction of a mezzanine floor between the two production levels. This mezzanine floor has been used as a general circulation space for all personnel and for all services. Further, site levels have made

GENERAL CIRCULATION DIAGRAM



Factory at Kitt Green, Lancashire



PLAN OF MEZZANINE FLOOR

possible the placing of the main entrance to the factory, which passes through the employee services building containing cloakrooms and canteen, at such a level that personnel leaving their buses can reach the mezzanine level by means of a bridge without going up or down staircases. Within the mezzanine floor they circulate without passing through production departments and, on reaching their appropriate staircase, go up or down to the area in which they work. On the north side of the production building, cans manufactured in the can-making building, rise up through the roof to an overhead gantry which feeds into the same mezzanine floor, discharging the cans vertically over the filling lines. Service pipes from the boiler installation, were originally to use this same gantry, but other factors have led to these pipes being taken at ground level. They still ultimately reach the mezzanine floor and from there supply all departments.

Solid walls surround the storage departments. Curtain walls surrounding the eastern, production, areas give unimpeded views to personnel. Floor finishes in storage and production areas are each standardised for flexibility. Ceilings with flush light fittings are carried uninterruptedly over production areas. There are few partitions and these are demountable. Columns and permanent walls, in the production departments, are tiled. All production machine bases are designed to be removable without damage to floor finishes.

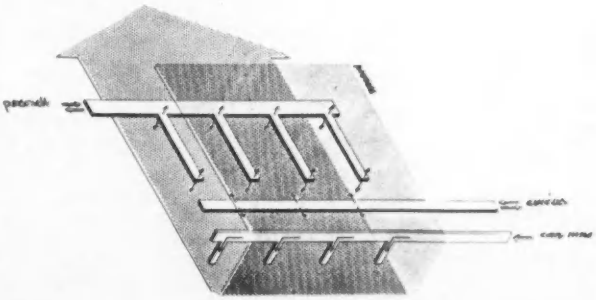
Construction and Materials.—The foundations are reinforced pile caps on cast *in situ* bulb footed piles. Each pile carries about 45 tons and the average load on each pile cap is 400 tons.

The warehouse section has a steel frame with a 24 ft. by 32 ft. column grid. The production area is steel framed on a 48 ft. by 16 ft. grid and the employee services building (ESB) has a reinforced concrete frame with a column grid of 32 ft. by 20 ft. The buildings' total structural steel weighs 8,000 tons.

The warehouse floor is a 7-in. reinforced concrete slab, the production section upper floor a 7-in. slab and the mezzanine floor is 7-in. pre-cast concrete beams and 2½-in. structural screed. The floor of the ESB is a 7-in. pre-cast concrete slab and finishing screed.

The warehouse section has a 20-in. cavity wall built in Accrington bricks. The production section has 'Holo-

INTERIOR CIRCULATION DIAGRAM



Factory at Kitt Green, Lancashire

plast ' aluminium curtain walls on a 4-in. module and the ESB walls are also in Accrington bricks forming 11-in. cavity walls in an exposed reinforced concrete frame.

The main building roof is built up with a light metal deck and fibre board insulation on steel purlins. The ESB roof is wood wall slabs on pre-cast concrete purlins. Three-ply felt roofing has been used throughout.

Fair-faced sand lime bricks have been used for load bearing inner walls and partitions. Non-load bearing walls internally are in light-weight concrete blocks. Sheet metal steel partitions have been used where they are required to be demountable. Internal doors are painted plywood in flush faced wood frames. In the warehouse section the fair-faced brick has been painted, and in the production areas walls are finished with glazed tiles to their full height.

Internal Finishes and Colours

Monolithic granolithic flooring has been used in the warehouse section and in the production areas the floors are either brick paviors in the manufacturing areas, or granolithic in the packing areas. Linoleum has been used in all offices and corridors. The production areas have flush ceilings formed from an impervious white plastic film sprayed on to a suspended ceiling. The warehouse section ceiling is fair-faced concrete.

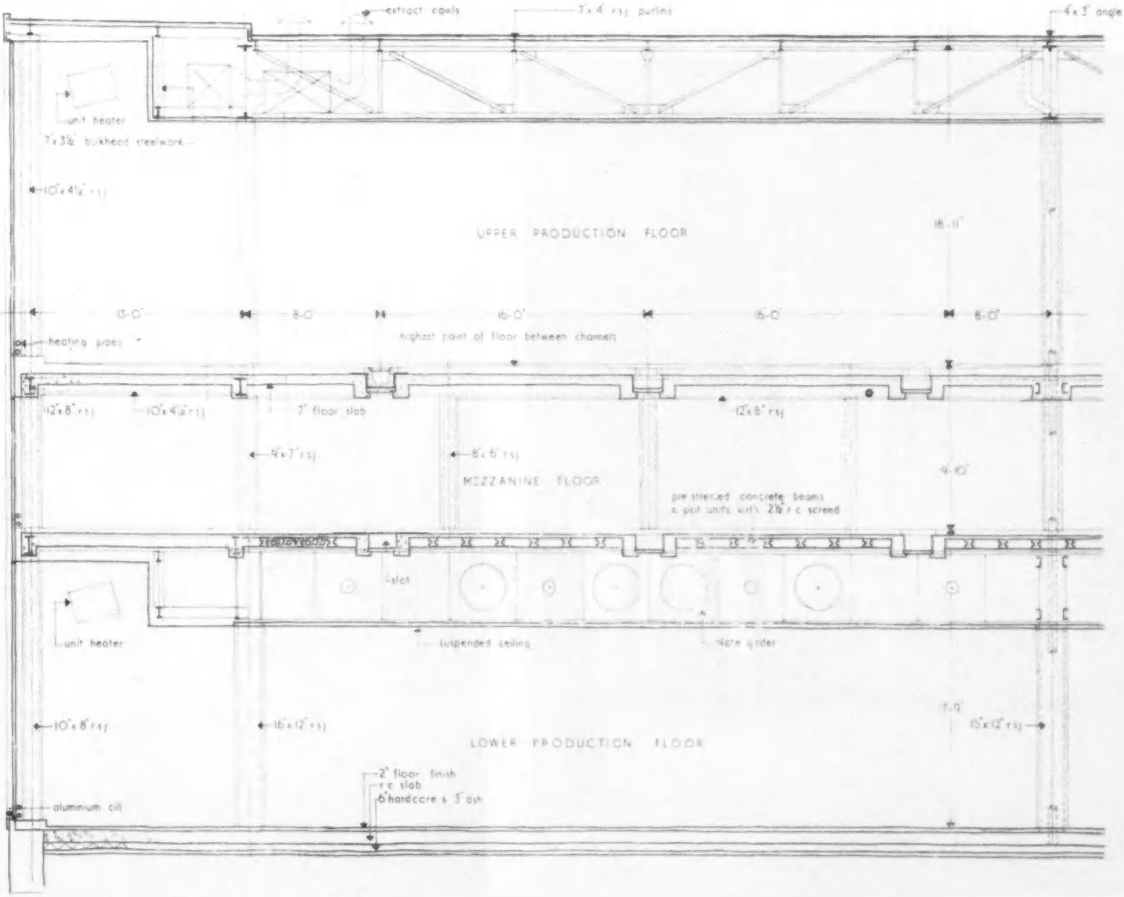
Externally the colours used are the Accrington Red brick walls, pale grey infill panels on the curtain walling, fair-faced or white painted concrete and yellow columns seen through the glass of the curtain walling. Internally the linoleum floors are dark grey ; the pavior floors are brick red ; pale grey tiled walls and pale grey tiled columns are seen in the production area, and white walls with brightly coloured feature sections and doors in the other areas. All the ceilings are white.

The production areas are lit by semi-recessed hot cathode fluorescent fittings with moisture and insect proof plastic diffusers. The warehouse section has fluorescent lighting in open reflectors ; the offices are generally lit by fluorescent tubes, and tungsten fittings are used in minor areas.

The heating system is designed to give a temperature of 65 deg. F. internally when the outside temperature is 30 deg. F. The production section is heated by live steam to air heater batteries in the plant rooms with the addition of low-pressure hot water radiators, convectors and unit heaters. The warehouse is heated by live steam to large fan convectors and the offices by low-pressure hot water radiators. The total heating capacity is 85 million BThUs per hour.

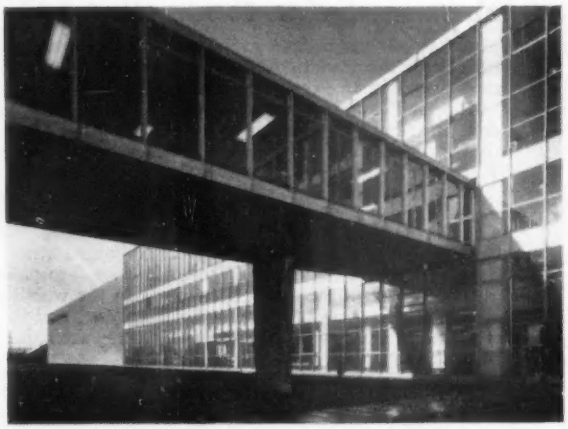
The buildings are generally mechanically ventilated with supply and extract duct work, except in the warehouse section. The production area supply is 90 per cent of the extract, the packing areas and offices have an extract that is 85 per cent of the supply.

Standardised colour schemes have been used throughout the production section. The bases, legs and chassis of machines are white ; bodies, casings and shields are neutral grey, and operating levers and handles are lime. Electrical switch boxes are blue and white, can runs are pale grey and danger points are picked out in red. All pipes follow a standard scheme of identification colours—air vacuum, light green ; compressed air, white ; soil water, black ; storm water, dark grey ; trade effluent, green ; electrical conduit, orange—except very low voltage, grey ; gas, yellow ; oil, light brown ; steam, aluminium ; condense, grey ; heating pipes, dark red and cold water pipes, blue.



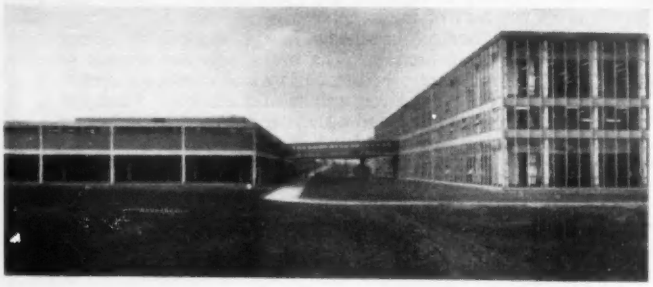
A TYPICAL SECTION OF THE PRODUCTION BLOCK

Factory at Kitt Green, Lancashire



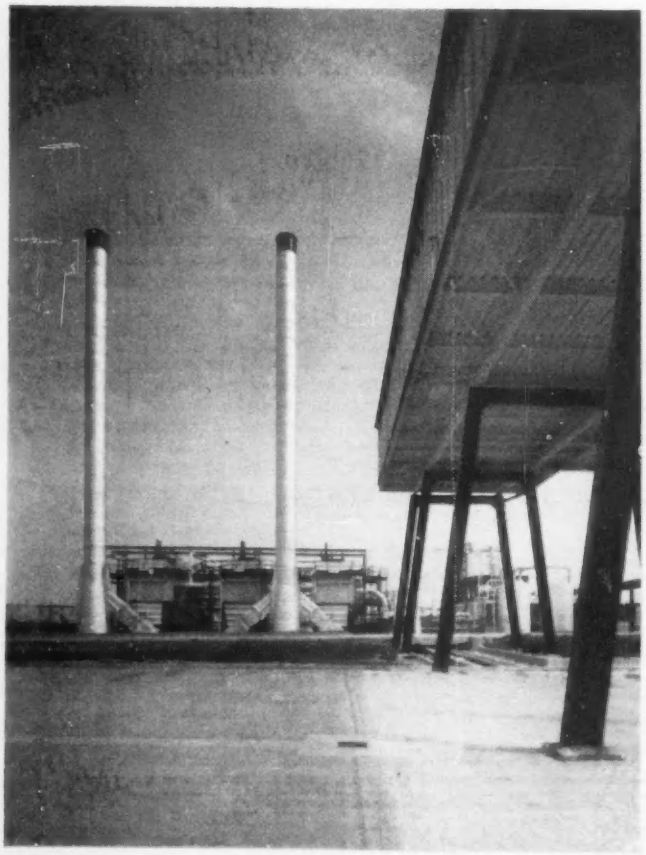
right : *A detail of the personnel bridge and part of the production block*

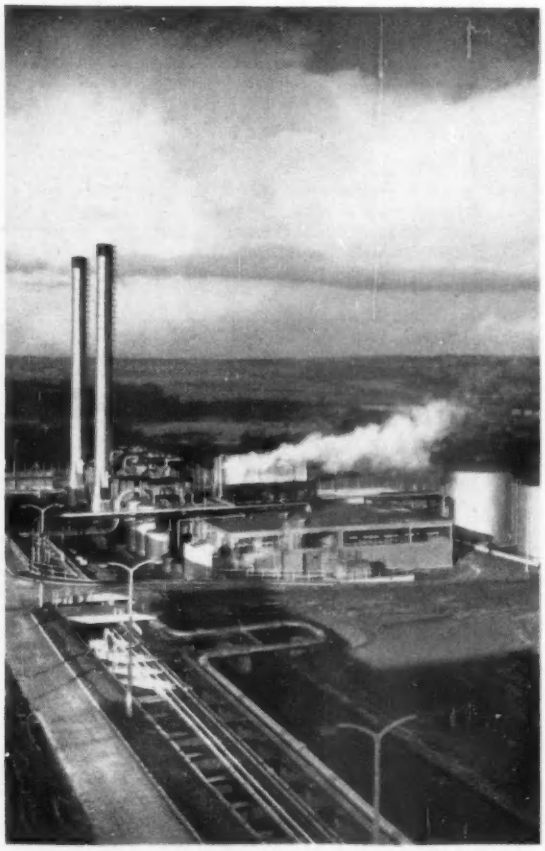
below : *The bridge joins the employees' services building on the left with the main factory and is entirely supported by the single column. The canteen terrace can be seen on the lower ground floor of the employees' services building*



below, left : *A section of the overhead can gantry which carries the conveyors from the can-making factory to the main building. The boiler house in the background is partly hidden by the slope of the site*

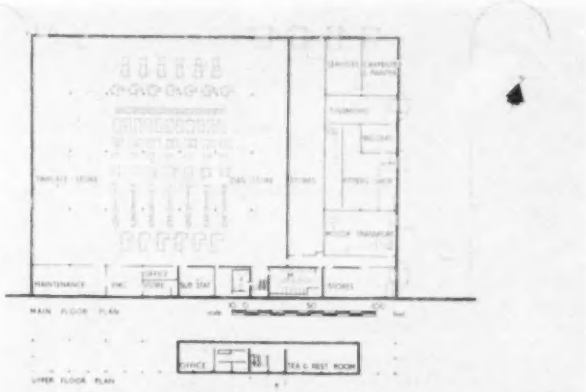
below : *A view of the boiler house from the roof of the main factory, looking north*





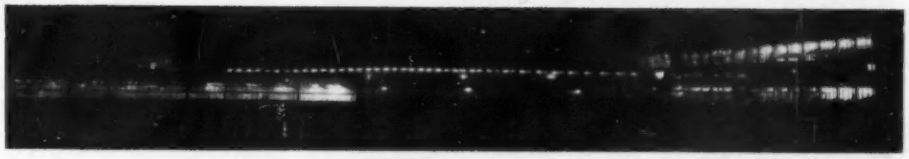
Two night views. left : The curtain wall east elevation of the main factory

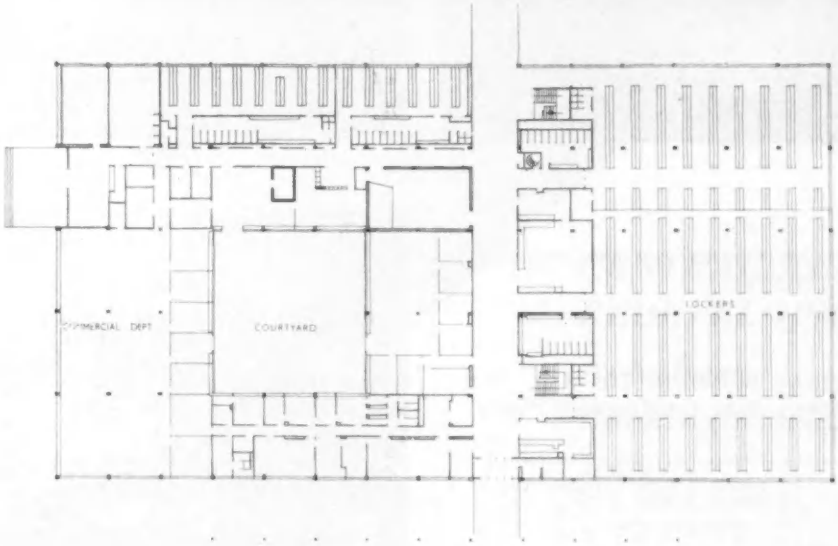
below : The can factory on the left joined to the main factory by the elevated can gantry



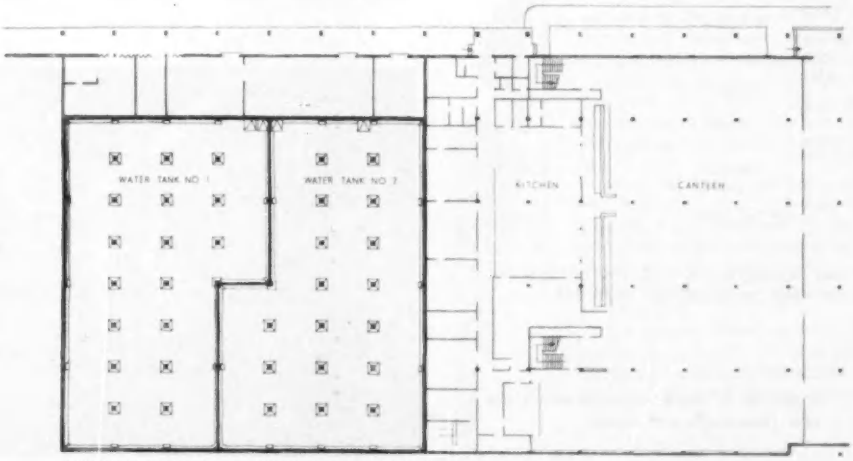
CAN FACTORY PLAN

Factory at Kitt Green, Lancashire





GROUND FLOOR



EMPLOYEES SERVICES BUILDING: LOWER GROUND FLOOR

Factory at Kitt Green, Lancashire

left : *Both production floors are laid in small sections to frequent drains and are regularly hosed down. This section of production area is typical of the general uncluttered appearance*

below : *The personnel corridor which runs the full width of the building at mezzanine floor level*

One of the tea rooms in the production building

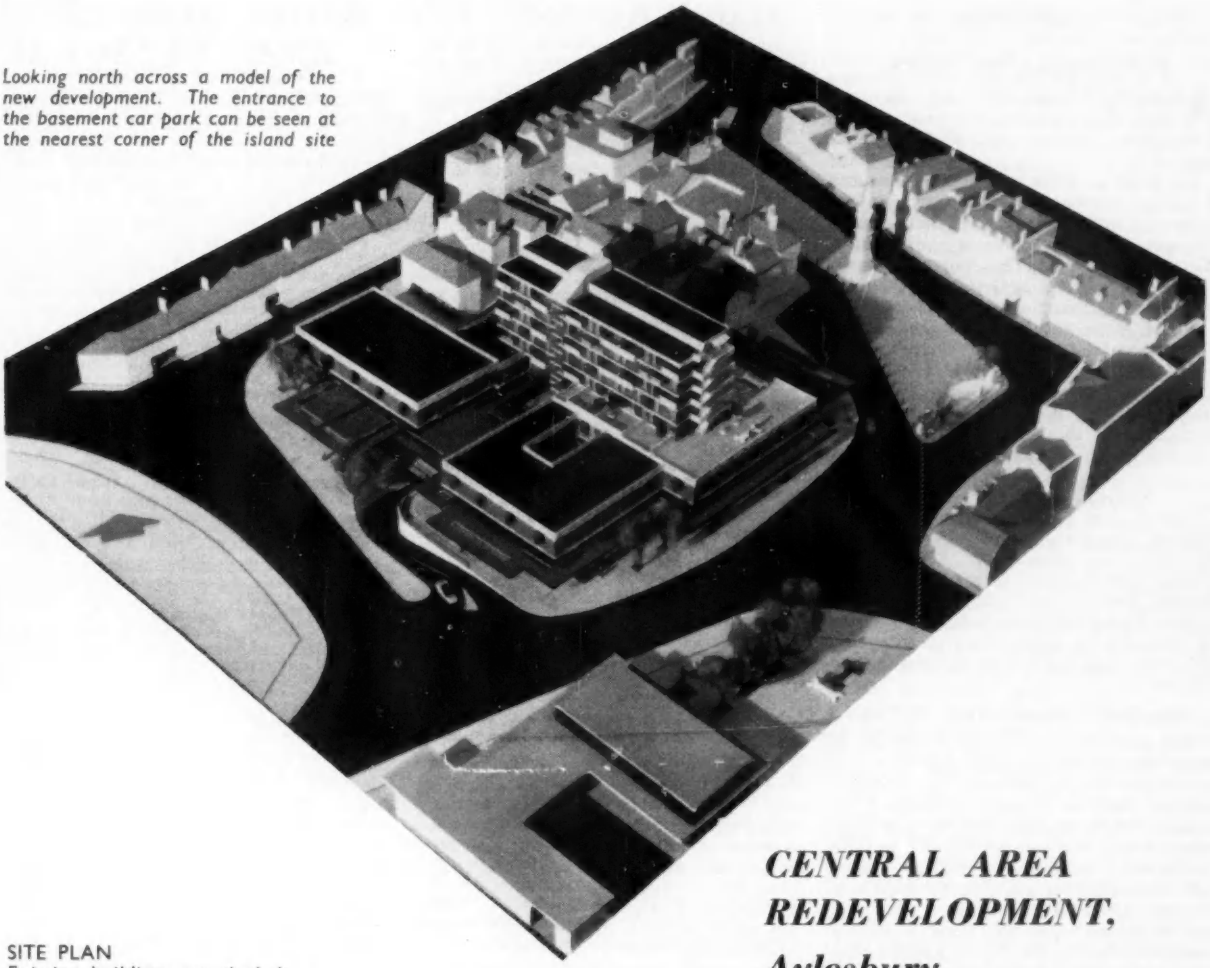
PROVISIONAL BUILDING COSTS

This cost breakdown excludes furnishings and client's plant and machinery.

	Overall Cost	Cubic Foot	Square Foot	Cost %
	£	s. d.	s. d.	
Warehouse, excluding platform, ramp and canopy	820,000	2 4	58 6	15
Production section ...	1,880,000	4 8	80 0	33
Employee services building...	410,000	6 3	82 0	7
Other buildings, including can-making building, workshops, platform, etc.	530,000	—	—	9
Site works, sports, road diversions	480,000	—	—	8
Installations—excluding client's equipment and installations	1,620,000	—	—	28
	£5,740,000	—	—	100%

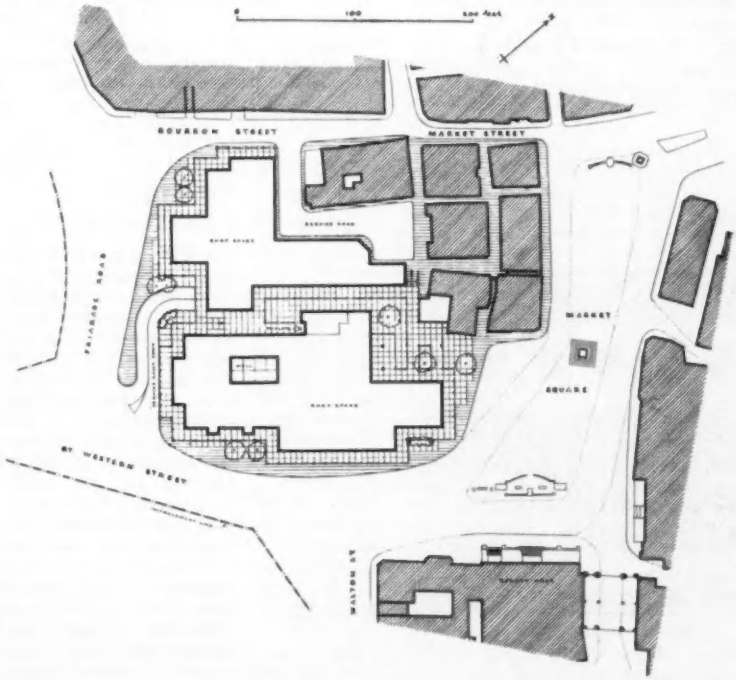
Subcontractors and suppliers.—A full list of subcontractors and suppliers will be found on page 831.

A section of the warehouse where the raw food-stuffs are stored



Looking north across a model of the new development. The entrance to the basement car park can be seen at the nearest corner of the island site

SITE PLAN
Existing buildings are shaded



CENTRAL AREA REDEVELOPMENT,

Aylesbury, Buckinghamshire

Architect:

F. B. POOLEY, FRIBA, FRICS, AMTPI, County Architect

THE model shows the general arrangement of this redevelopment scheme which will create a new precinct, including some old buildings, on an island site surrounded by existing highways.

The slope of the site allows a basement car park to be easily constructed beneath the new buildings. The basement will also provide service access to the shops on the site.

Some 30 shops will be grouped around the highways and the new precinct will provide approximately 1,200 ft. of new shop frontage. There is generally one storey of other accommodation above the shops which will be used for shop storage or as offices.

The central tower block is shown on the model as a block of flats, but it may be developed as a multiple store in conjunction with a section of the ground floor area.

OBITUARY

F. J. Osborne, MC, FRIBA

As briefly reported last week, the death took place recently at Solihull, of Mr. Frank John Osborne, MC, FRIBA, at the age of 73.

Educated at Solihull School and the Birmingham School of Architecture, he later joined his father, the late Mr. John Perrins Osborne, in his practice, in Colmore-row, Birmingham. Among his works were the public health centre in Great Charles-street, Birmingham; many of the City's public libraries; numerous industrial subjects, pit-head baths; and All Saints' Church, Shard End, which was consecrated in 1955 and three days later visited by the Queen, to whom he was presented. He had been President of the Birmingham and Five Counties AA. He leaves a widow and son.

Samuel Beverley, FRIBA

The death of Mr. Samuel Beverley, FRIBA, took place on April 26 at his home at Tonbridge, Kent. Mr. Beverley was partner and son-in-law of the late Frank T. Verity, FRIBA, and had carried on the latter's practice which included a good deal of cinema work, among the more important buildings being the Carlton Cinema in Haymarket.

Ald. F. W. Dean, CBE, P-PIAAS

The death has taken place of Ald. F. W. Dean who had given many years of service to London local government as a member and (in 1946) as deputy chairman of the London County Council. He had been twice mayor of St. Marylebone BC, of which he had been an alderman since 1925. By profession a surveyor, he was a past President of the Incorporated Association of Architects and Surveyors. He has been a Deputy Lieutenant for the County of London, and was made CBE in 1954 for public services.

G. Martin Swan

Mr. G. Martin Swan, partner in the firm of Messrs. J. D. and D. M. Watson, chartered civil engineers, of Westminster, SW1, died suddenly on April 16.

H. F. Chivers

The death took place on April 19 of Mr. H. F. (Fred) Chivers, a director of the old established Devizes builders, Messrs. W. E. Chivers & Sons, Ltd. He was 42. Mr. Chivers, a grandson of the late W. E. Chivers, founder of the firm, was educated at Monkton Combe School and joined the company in 1932. He was responsible for supervising several large civil engineering contracts in various parts of the country. In the war he served in the Burma campaign. The funeral, on April 23, was attended by representatives of the building industry, the Ministry of Works, Atomic Energy Authority and the War Office.

T. Fairclough

Mr. Tommy Fairclough, chairman of Taylor Woodrow Homes Ltd., has died, aged 50, following a long illness. Mr. Fairclough had been with Taylor Woodrow since 1929, having joined the organisation in its early Blackpool days. He became a director of Taylor Woodrow Homes Ltd., on its formation in 1945, managing director the following year and subsequently chairman. Before the War, during which he was engaged on the construction of aerodromes and other defence works, he had been managing director of County Homesteads Ltd., the predecessor to Taylor Woodrow Homes.

BOOKS RECEIVED

***Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

Prismatic and Cylindrical Shell Roofs. By David Yitzhaki. (Amsterdam: North-Holland Publishing Co.) Price 84s.

Who's Who in Trade Agreements. (London: Gordon Rayment & Co., Ltd.) Price 40s.

Practical Designs for Built-In Furniture. By Arthur R. Brown. (London: Crosby Lockwood & Son, Ltd.) Price 18s.

BRITISH ARCHITECTS' CONFERENCE

Programme of Events

Following is a summary of the official programme that has been issued by the RIBA in connection with the forthcoming British Architects' Conference, which is to be held in Cardiff from June 10 to 13 next:

Headquarters: The City Hall, Cardiff. Car parking: There are some car parking facilities in the City Centre which will all be shown on the map in the Conference Handbook, but garage accommodation should be arranged through the hotel reservations.

WEDNESDAY, JUNE 10

8.30 p.m.: Informal Reception: In the City Hall, Cardiff, as guests of the South Wales Institute of Architects. Informal dress.

THURSDAY, JUNE 11

9.30 a.m.: Inaugural Meeting: In the Reardon Smith lecture theatre at the National Museum of Wales. Address of welcome by the Lord Mayor; Inaugural Address by the President, RIBA (Mr. Basil Spence, OBE, TD, ARA, ARSA); and papers on 'Architectural Management,' by Mr. W. S. Gauldie, FRIBA, and Mr. A. F. S. Wright, FRIBA.

1.45 p.m.: Study Group: Park Hotel.

3.30 p.m.: Garden-Party: Buses leave Museum avenue, Cardiff, for St. Fagans Castle. Return from St. Fagans at 5.30 p.m.

8.30 p.m.: Civic Reception and Dance: In the City Hall. Evening dress. Decorations. (Until 1 a.m.)

FRIDAY, JUNE 12

9.30 a.m.: Choice of Two Whole-Day Tours: No. 1: Industrial South Wales; guides: Mr. H. Mendus, LRIBA, and Mr. F. L. Kluge, ARIBA; No. 2: Monmouthshire and Glamorgan guides; Mr. C. Bates, RIBA, and Mr. G. L. Edwards, ARIBA.

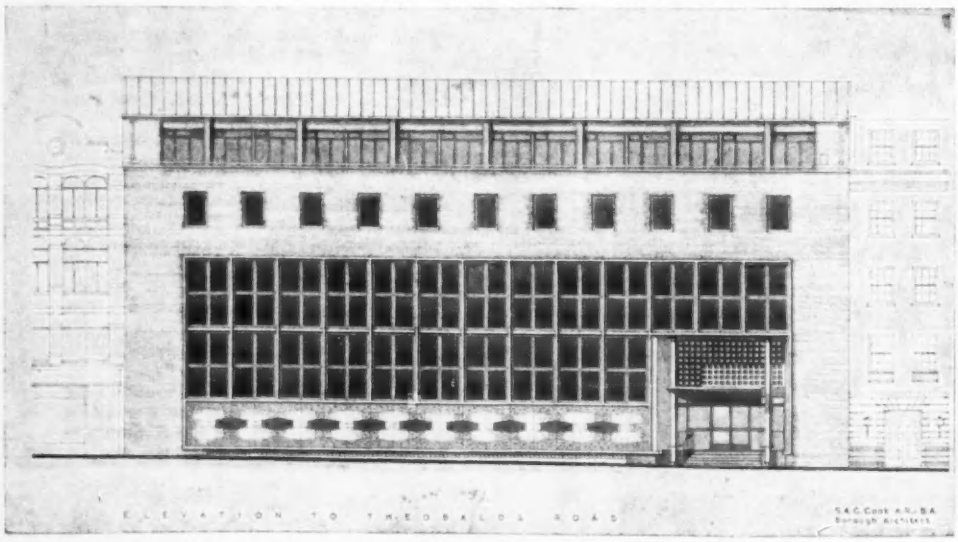
10 a.m.: Continuation of Discussion on Papers: In the Reardon Smith lecture theatre, National Museum of Wales. (Until 1 p.m.).

2.15 p.m.: Choice of Five Half-Day Tours: No. 3: Vale of Glamorgan; guide: Mr. N. Thomas, ARIBA; No. 4: Llandaff Cathedral; guide: Mr. A. G. Robertson, LRIBA; No. 5: British Nylon Spinners' factory, Pontypool; guide: Mr. W. Marsden, ARIBA; No. 6: Cwmbran New Town and Newport Housing Schemes; guide: Mr. J. Blackett, FRIBA, and Mr. J. C. P. West, ARIBA; No. 7: Cwm Colliery, nr. Llantrisant; guide: Mr. T. Hill, FRIBA.

7.30 for 8 p.m.: Conference Dinner: In the City Hall. Evening dress; Decorations.

SATURDAY, JUNE 13

Informal Visits.



HOLBORN'S NEW LIBRARY

LORD KILMUIR, the Lord Chancellor, last week laid the foundation stone of the new Holborn central library which is to face Gray's Inn across Theobalds-road. The architect is the Borough Architect, Mr. S. A. G. Cook, ARIBA. The four-storey, £250,000 building will also serve as a centre for the communal life of the Borough. Mr. Cook has been assisted in the work by the Deputy Borough Architect, Mr. E. L. Ives, ARIBA. Holland & Hannen and Cubitts, Ltd., are the contractors.

NEW TECHNIQUES AND THE BUILDING TRADE WORKER

Conference sets up National Joint Committee to Plan Introduction of New Techniques and to Review Apprentices' Craft Training

From Our Special Correspondent

A CONFERENCE called last week by the National Federation of Building Trades Operatives to discuss new techniques and their effect on the conditions of work and the training of the building worker, decided to set up a joint committee for the planned and agreed introduction of new techniques which should also review apprenticeship with the objective of widening the basis of craft training. The conference, which brought together about 140 *delegates of* 19 *building unions representing about a million and a quarter workers, was held from April* 22-24 *at Maritime House, Clapham Common, SW.*

Before the conference opened MR. J. H. MILLS, the President, described the agenda as 'fairly formidable.' The subsequent hours of discussion showed the depth of this deliberate understatement only too clearly. Not unnaturally there was some hard-hitting, but throughout there was good humour, and the observer could not fail to have been impressed by the earnest desire of every speaker to make a truly constructive contribution to the debate. From this point of view the conference was an outstanding success and one of which the NFBTO have good reason to be more than proud.

It was clear from the outset that any consideration of the impact of new and changing building techniques on trade union organisation could not be accurately gauged without some consideration being given to the two main agreements under which building and civil engineering work is conducted. The labourers' unions did not altogether share this view, and their spokesmen were more than a little critical of the imputations that two separate agreements had the effect of denying to the Operatives true unity of organisation, retarded the general recognition of a central policy throughout the country or contributed to a lack of control on the particular sites. On the other hand the craft unions seemed to be quite convinced that the time had come to make a positive move towards unity of purpose—a move which to them seemed impossible when two sets of industrial agreements were operating.

A Conflict of Control

Those most directly concerned with the civil engineering agreement were at some pains to justify their position both now and in the past, but the craftsmen's spokesmen left little doubt that this agreement was being used far too much for work that was purely of a building nature; that there was too much overtime under that agreement; and that they had little faith in the ability of the main unions affiliated to the Civil Engineering Conciliation Board to exercise proper control.

It seems that on many of the sites where work is being conducted under civil engineering conditions, the responsibility for trade union organisation is often largely left to the comparatively few craftsmen on the site. It was contended that in most instances it was they who brought pressure to bear on non-organised workers to join the general workers' unions, and to that extent they were in fact doing the recruiting work. The extent of this problem from the NFBTO's point of view was indicated by information given that there were over half a million non-organised workers in the building trade—the vast majority of them unskilled, or, at best, semi-skilled. 'They have,' one speaker averred, 'been lifted to the highest point ever achieved by unskilled or semi-skilled workers on the backs of the craftsman.'

It was not surprising therefore that, after prolonged discussion along these lines, the delegates acquiesced to a suggestion put forward by the president that the subject be referred to the executive council for a working party to prepare a single agreement which might serve in the place of the existing two.

Avoiding Trouble

Having cleared the air on this important issue the conference then turned its attention to the examination of the views submitted by affiliated unions on the subject of new techniques. Those who presented the papers did their job well, and in many instances the observer was struck by the resourcefulness which building trade union officials often exercise to avoid head-on clashes between unions on demarcation problems. The general feeling gained was that although demarcation issues in building often get unfavourable publicity, that did not always mean that earnest attempts to avoid them were not made.

The craft unions again seemed to be most conscious of the threat to their future. A large factory built at Swindon mainly without the aid of craft skill and a large office block on the riverside in London costing £1¼m. where no more than 50 men were employed on the site at any one time were instances given of the trends in building design and site operations today. Delegates were invited to look round at the coved ceilings and carved panelling of the conference hall at Maritime House in which they were gathered. 'This won't happen again,' they were told by one speaker. This was the 'ordinary manner of building' with which most of them had grown up, but today prefabrication, precast concrete products, metal partitioning and so on were bringing about such changes in the life and work of the building worker that it was imperative for him to build up a general understanding of the position and thus seek to reshape the building unions accordingly.

The high standard of forward-looking thought was continued on the conference's second day, though it would be true to say, perhaps, that while all were forward-looking, some looked further forward than others. The spokesman of the plumbers, for instance, while complaining of lack of co-operation with the heating employers, felt that the time for training apprentices in a variety of trades was not yet, neither for interchangeability of crafts. He was brought back sharply to reality by the general secretary of the Scottish painters who reminded the delegates that they were there to give recognition to the fact that revolutionary change was being made in the industry. He was followed by a spokesman for the National Society of Painters who felt that present conditions either presaged a re-orientation of training for crafts or else a limitation of apprenticeship.

Then it was the turn of the marginal unions whose membership, comprising men who are largely engaged in the assembly trades called into being by the new techniques, provided some of the problems under consideration by the conference. The Enginemen, Firemen, Mechanics and Electrical Workers' spokesman emphasised that this new type of membership associated with mechanisation on sites was not found on small jobs but for the most part worked in the plant yards; such men were paid rates for the most part as operate in the civil engineering industry. They were not classified as craftsmen. Why?

Following on, the National Secretary of the Transport and General Workers, a union which includes many of the men who, as labourers, operate the new skills which recent building methods demand, supplemented a memorandum prepared by the union (which stated that the conference was unlikely to achieve its objective if the policy was directed to safeguard any particular section, or the considerations were centred around issues of demarcation) by stating categorically that the problem before them was to find a place for the semi-skilled men who had come up from the labourers' side. 'New techniques,' he declared, 'require new skills to service them.'

This objective note, which was listened to with attention if not with enthusiasm by the recognised craft unions, was continued by MR. KENNETH CAMPBELL, President of the Association of Building Technicians (which is affiliated to the NFBTO) who made the point that new methods and techniques did not arise in the minds of builders but came from architects and civil engineers. The unions, he thought, should study the basic construction of modern buildings and develop their knowledge of how to apply their skills to that development. He thought their future lay along two lines: (a) They should look at the training of young people coming into the industry and see in what ways one craft could be linked with another; and (b) unions must continue to press for closer linkage with unions, and particularly should efforts be made to bring in those that might seem to be antagonistic.

Constructive Proposals

Perhaps most constructive of all were proposals brought forward by the Amalgamated Union of Building Trades Workers which suggested that:

(a) new techniques which replace previously recognised craft operations should be integrated within agreed crafts;

(b) there should be established a national joint committee for the planned and agreed introduction of new techniques;

(c) the unions should consider the possibility of creating a central research unit capable of assessing new methods. This unit also to publicise the use of craft methods of construction;

(d) apprenticeship to be reviewed with the objective of widening the basis of craft training so that, while fewer basic crafts remain in existence, the new operative could adapt himself to a wide field of operation;

(e) there should be consideration of amalgamation or ways at least in which greater co-operation between unions can be brought about; and

(f) one constructional trades agreement be brought into existence for the whole of the industry, instead of two as at present.

Speaking to this paper, the Amalgamated Union's secretary, MR. GEORGE LOWTHIAN, made an impressively statesmanlike speech. The problems, he said, were not the problems of single unions, and as such each union must be prepared to do its part to plan the industry. If one looked at the contractors' board on any large site, one could see 40 or 50 different sub-trades named. Was it suggested that these required 40 or 50 different types of operative? 'We need to find a plan for all workers within the present framework,' he declared. 'As a first step we must establish a national joint committee to examine the new changes and devise a new structure to meet them. The operatives have a right equal to that of the employers to decide what and when and how new techniques be introduced.'

Other points made by Mr. Lowthian were that the unions needed an effective propaganda machine to bring home to the public as well as the employers the claims and value of the unions. Then priority must be given to the question of apprenticeship. 'Jacks-of-all-trades are not required,' he declared, 'but there is ample scope for examination of the format of training. We can't look upon industry in the old traditional way; we must train constructional workers to meet the challenge of the new constructional assembly. And we must foster team-spirit.'

Demarcation Problems

On the subject of inter-union relations, Mr. Lowthian remarked that demarcation problems made closer working between unions essential. If that co-operation was not secured, there would be an increase in the number of trade unions: 'It is trades that create unions, not unions trades' he added. And finally: 'Changes can't be achieved overnight, but it is possible to create circumstances in which our unions can meet and try to iron out matters at issue. If we can do that, we shall have moved a long way towards one union for the building and civil engineering industries. There can be no room in the United Kingdom for two agreements covering the same industry.'

The conference then proceeded to debate the proposals, at the conclusion of which the decision was taken by an overwhelming majority to set up the national joint committee called for in the AUBTW memorandum.

News of the Week

RIBA News

THE presentation of the Royal Gold Medal is to take place on May 26 at 6 p.m. when Professor Mies van der Rohe will be present in person to receive the award from Mr. Basil Spence, OBE, president RIBA.

At the RIBA meeting on June 16 following the announcement of the Council election results the president will talk about his recent tour in Africa and will show coloured slides taken during his visit. This will take the place of the discussion on Professional Status which had previously been announced for that evening, but it is hoped to arrange a paper on this subject early next session.

The Exhibition of Chinese Architecture will be presented at the RIBA early in July and not in June as previously announced. This later showing will mean that the exhibition will remain on view for a longer period.

New Royal Academicians

AT A GENERAL ASSEMBLY of Academicians and Associates on April 23, Mr. Gilbert Spencer, ARA, Mr. Eric Kennington, ARA, and Lord Methuen, ARA, painters, were elected Royal Academicians, and Mr. Raymond Erith, FRIBA, was elected an Associate. Mr. F. E. McWilliam, sculptor, Mr. John Bratby, painter, and Mr. Bernard Dunstan, painter, have also been elected Associates of the Royal Academy.

Canadian Planners' Visit

A DELEGATION of Canadian civic officials, and planning and industrial experts arrived in London on April 30 for a three-day visit before continuing to Scandinavia. The delegation is led by Mr. Macklin Hancock, one of the foremost town planners in Canada, and designer of Don Mills new town, Toronto.

The delegates are to see something of the work of the LCC and visits are to be made to three new towns.

Solent National Park Proposal

AN all-party deputation of both Houses of Parliament, in which the House of Commons Yacht Club took part, was received on April 22 by Mr. Henry Brooke, Minister of Housing and Local Government.

The deputation emphasised the need to place the shores of the Solent under a particularly vigorous planning control and discussed with the Minister various methods of securing this, including the possibility of a Solent National Park. The Minister explained that it lay with the National Parks Commission to put forward to him any proposals for National Parks, and not vice versa, and the deputation decided to make an approach to the Commission.

The deputation included Sir Alfred Bossom, MP (Admiral of the House of Commons Yacht Club), and Lord Mottistone.

Modular Co-ordination in Building

THE British Standards Institution is sending out for comment to all the interests concerned a draft standard concerning some fundamental aspects of modular co-ordination in building. The standard as proposed is extremely brief. On the most important recommendation —that is the size of the module—the committee concerned emphasises that a final decision has not yet been taken. Copies of the draft standard and memorandum are free to subscribing members of BSI (non-members, 5s.).

Surrey CC to Increase Staff

SURREY COUNTY COUNCIL'S architect's department is being increased in all sections in order that it may carry out yearly building and maintenance programmes costing about £3,200,000. A school building programme amounting to £5,600,000 for 1960-2 was recently settled and with other work in the county the total cost of next year's building work will be £4,600,000.

PROFESSIONAL ANNOUNCEMENTS

MESSRS. EDWARD D. MILLS & PARTNERS, architects, have changed their address to 9/11 Richmond Buildings, Dean-st., Soho, London, W1 (tel: Gerrard 8305—unchanged).

MR. B. N. H. ORPHOOT, RSA, FRIBA, latterly of Wellhouse, Murrayfield, Edinburgh, and 21 High-st., Bideford, N. Devon, has now retired from active practice. The practice in Devon is being carried on by MESSRS. WHITING & WICKHAM, at 21 High-st., Bideford.

OWING to the proposed re-building of Nos. 1-19 Victoria-st., MESSRS. GRIMWADE & AINSLEY, quantity surveyors, have moved to new offices at No. 2 Clement's Inn, WC2 (tel: Holborn 3011/2).

MESSRS. I. R. RUSSELL & PARTNER, chartered quantity surveyors, head office National Bank Chambers, Green Dragon-la., Wind-st., Swansea, and of Alpine House, Temple-st., Llandrindod Wells, Rads., have opened a further branch office at 24 Lammas-st., Carmarthen.

MESSRS. OSCAR FABER & PARTNERS, consulting engineers of London and St. Albans, Herts., announce that they have now opened an office in Belfast, at 31 College-gdns. (tel.: Belfast 33088). Catalogues and trade literature dealing with structural, mechanical and electrical services would be appreciated.

MESSRS. JACKSON & EDMONDS, chartered architects and surveyors, of 116 Colmore-row, Birmingham 3, have opened a London office at 30 Gloucester-place, London, W1 (tel: Hunter 1485). The senior assistant in charge of this office is MR. A. W. VARCOE, ARIBA.

MESSRS. WALTER W. GREEN & PARTNER, quantity surveyors, announce that they have taken into partnership MR. F. WATKINS, AIQS, who has been associated with the firm for ten years. The name of the firm will remain unchanged.

A HUNDRED YEARS AGO

From THE BUILDER *of April* 30, 1859

ARCHITECTURAL COMPETITIONS.—A sad misgiving and deep distrust seems to have overspread the profession as to the indiscriminate justice of awards lately made by committees appointed to adjudicate upon competing architectural plans.

The labour and expense incurred by architects of standing, the anxieties and hopes of younger aspirants, and the immense loss of time occasioned to the unsuccessful in such competitions, make it doubtful whether the system is beneficial to the body at large; the least, therefore, that can be done by committees is to show forth, that if many run for the prize, it is adjudged to the most deserving.

QUONDAM.

COMING EVENTS

FRIDAY, MAY 1

INSTITUTE OF BUILDERS, BIRMINGHAM CENTRE (Licentiate Discussion Club).—Presentation of Diplomas for 1958 examinations. By Mr. V. T. Williams, FIOB. Followed by a film; 'Stonework.' Grand Hotel, Birmingham. 7 p.m.

INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS (Thames Chapter).—'Building Contracts.' By Mr. F. J. Meekins, PPIAAS. Reading. 7.30 p.m.

SATURDAY, MAY 2

INCORPORATED BRITISH INSTITUTE OF CERTIFIED CARPENTERS.—General Meeting, Memorial Hall, Farringdon-st., EC4. 5.30 p.m.

MONDAY, MAY 4

ARCHITECTURAL ASSOCIATION.—Exhibition: 'Office Block in Birmingham.' By Erno Goldfinger. 36 Bedford-sq., WC1. Mon. to Fri.: 10 a.m. to 6 p.m. Sat.: 10 a.m. to 6 p.m. (until May 16).

SOCIETY OF ENGINEERS.—'Grouting and Civil Engineering.' By Mr. D. J. Ayres, AMSE. Geological Society, Burlington-hse., W. 5.30 p.m.

RICS.—'The New Code of Compensation (under Part 1 of the Town and Country Planning Bill).' By Mr. P. G. E. Haddock, FRICS. 12 Great George-st., SW1. 5.45 p.m.

TUESDAY, MAY 5

ARCHITECTS' BENEVOLENT SOCIETY.—Annual meeting. RIBA, 66 Portland-pl., W1. 11.30 a.m.

BUILDING CENTRE.—Opening of an exhibition of 'New Building Materials.' By Mr. Harmar Nicholls, JP, MP. 26 Store-st., WC1. 12 noon. Open Mon. to Fri.: 9.30 a.m. to 5 p.m. Sat.: 9.30 a.m. to 1 p.m. (until May 19).

RIBA.—Annual general meeting. 66 Portland-pl., W1. 6 p.m.

JOINT COMMITTEE ON STRUCTURAL CONCRETE (in association with the British Council.—Lecture by Sr. Felix Candela. Friends' Meeting House, Euston-rd., NW1. 6 p.m.

WEDNESDAY, MAY 6

INSTITUTE OF BUILDERS, NEWCASTLE AND DISTRICT CENTRE (Licentiate Discussion Club).—Visit to main office block, new process office and medical centre of ICI, Billingham. 2.30 p.m.

ARCHITECTURAL ASSOCIATION.—Talk: 'Office Block in Birmingham.' By Erno Goldfinger. 36 Bedford-sq., WC1. 6.15 p.m.

BUILDING SURVEYORS' INSTITUTE.—Area annual meeting. Building Centre, Store-st., Tottenham Court-rd., WC1. 6.45 p.m.

FRIDAY, MAY 8

NATIONAL FEDERATION OF PLASTERING CONTRS.—Visit of 11 members of the Contracting Plasterers and Lathers' International Union of the United States of America and Canada to this country (until May 19).

INSTITUTION OF STRUCTURAL ENGINEERS (Midland Counties Branch).—'Future Trends in Structural Engineering.' By Prof. S. C. Redshaw, Department of Civil Engineering, University of Birmingham. 10 a.m.

ASLIB.—Conference: 'The Presentation and Interpretation of Technical Information.' Connaught Rooms, Great Queen-st., WC2. 10.30 a.m.

CIVIC TRUST.—One Day Conference: 'The Street Scene.' St. Andrews Hall, Norwich. 12 noon.

INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS (London and Home Counties Branch).—Informal dinner. Horse Shoe Hotel, Tottenham Court-rd., W1. 7 p.m.

ROYAL SOCIETY FOR THE PREVENTION OF ACCIDENTS.—National Industrial Safety Conference and Trade Exhibition. Scarborough. 8.30 p.m. (until May 10).

SATURDAY, MAY 9

ECCLESIOLOGICAL SOCIETY.—All-day visit to Cardiff. Paddington station. 8.55 a.m.

Chartered Surveyors' Conference

THE Third Annual Conference of the Royal Institution of Chartered Surveyors will be held this year from June 23 to June 27 at the 800-year-old University of St. Andrews in Scotland. More than 400 members of the Institution are expected to attend.

EVERYDAY THINGS

By Arthur W. Kenyon, CBE, FRIBA

LXXVIII.—Topping-Out

I HAD begun to wonder whether the expression 'topping-out' had died out or whether the custom itself had fallen into disuse until I saw the other day that the ceremony was still being observed. Nevertheless, I do not think it goes on to the same extent as in days gone by when every building seemed to have its own topping-out occasion. I refer, of course, to the old custom of hoisting the flag when the topmost point of a building is reached. This used to be a fairly simple point to locate when buildings had a pitched roof and perhaps a chimney pot going through it, but to-day there is probably nothing but a flat roof and no highest point.

It may be that the custom is in any case being allowed to fall into disuse as one of those sentimental occasions which are out of harmony with modern times and methods; I have even heard it said that it savours of patronage. How silly!

I always used to enjoy the ceremony, for ceremony it certainly was, with the client drinking beer with the men on the job when they reached the highest point. I saw nothing but goodwill and good fellowship on these occasions and it gave the owner a chance to get to know the foreman and his men. Unfortunately, all the trades were not represented, but those who were had done the heavy work. In the days when the bricklayer did plastering and the plumber did tiling, I suppose the trades were better represented than they would be to-day.

'Topping Out'

I can recall many of these happy occasions, in both winter and summer, when we sat around the coke fire or spread ourselves on planks or scaffolding in the mid-day sun. The architect usually acted as master of ceremonies, although the owner was the host, and it was the architect's role to introduce the men to the owner. I have seldom seen the master builder himself there: perhaps tradition had it that this was an occasion for the workmen only, but I do not know about this.

Quite a little organisation went in to the preparation for the most successful topping-out ceremonies. A small barrel of beer was better than bottles, but care had to be taken in handling it. Glasses were borrowed from the local pub, for beer tastes better from a glass than a cup. There was no food and no speeches—except on the odd occasions when someone felt moved to deliver one.

Now I have only just realised that this ceremony can only really be properly held when there is a private owner. You cannot imagine a limited liability company, a local authority or a government department drinking beer with the men when the flag is hoisted. So let us hope that sufficient private owners will survive to preserve the tradition.

P.S.—Since writing this I find that the ancient ceremony, far from dying out, is being given a new lease of life with scarlet-coated toastmasters to herald the cranes as they lift the last skip of concrete, whilst the beer-drinking party on the ground is being graced by Directors and Mayors.

WELSH SCHOOL OF ARCHITECTURE

Appointment of Reader

THE outline report on the Oxford Conference on Architectural Education included the following paragraph: 'In spite of the strong arguments for University schools it was clearly recognised that several Institutions outside the Universities were capable of developing their training to a University level. Experimental developments in schools of advanced technology would give these Institutions the opportunity of advancing those aspects of Architectural Education which are proper to their framework and of adding to the variety of skills that are required of the architect.'

It is believed that of the eight colleges of advanced technology throughout the country only one—the Welsh College—includes a school of architecture.

The Welsh School of Architecture, Cardiff, is alive to the opportunities and in order to take advantage of them has decided to appoint a Reader whose first duties will be to carry out research and to put forward proposals for experiments in architectural education, including the possibilities of integrated training for the various branches of the building industry centred on the School of Architecture. There is a Department of Building in the College of Advanced Technology, and the School of Architecture has associations with the University of Wales in that a degree course is run parallel to the normal diploma course.

Realising the importance of maintaining the closest possible link between teaching and practical building, the Board of Governors have recently brought the school into line with the RIBA's requirements that the head and staff of the school shall have the right to practice privately unrestricted except by their duties to the school. Here then, it is stated, is an opportunity for somebody to do something really worthwhile.

IN PARLIAMENT

By Our Parliamentary Correspondent

FIRE RISK IN FACTORIES

A SERIES of Government amendments to the clauses of the Factories Bill dealing with fire risk and fire prevention were agreed to when the report stage of the Bill was taken on April 14. Their object was to transfer the responsibility for the certification of factories in connection with means of escape in case of fire from the district councils to the existing fire authorities—the county and county borough councils.

MR. RICHARD WOOD, Parliamentary Secretary to the Ministry of Labour, moving the amendments, emphasised that they implied no dissatisfaction with the work which district councils had done in the past in connection with the issue of fire escape certificates. He anticipated some of the concern which MPs later expressed by saying that one of the arguments put forward was that this work was closely related to the work of planning and building control, at present carried out by district councils, and therefore it would be better, so it was argued, if the two jobs were still kept together.

Having considered all the points he was convinced the committee's decision to transfer the functions to the fire authorities was right. He was convinced that this being a fire job, and being as closely connected as any job could be with fire matters, it should be in the hands of the fire experts—the fire authorities. It was the intention of the Government, if the House agreed with the principle embodied in the amendments, to put down an amendment to regularise the position in Scotland when the Bill went to the House of Lords.

For the Opposition, MR. ANTHONY GREENWOOD welcomed the amendments but commented that local government associations had stressed certain difficulties. The Association of Municipal Corporations had written to him: 'District councils, as building by-law authorities, have to pass the plans of new factories and it would clearly lead to extra administrative work, confusion and additional cost to factory owners if building plans were approved by by-law authorities and then, after the building had been constructed, the fire authorities required alterations.'

That, said Mr. Greenwood, was a fair point but he would have thought they were purely administrative difficulties and that they could be resolved administratively. All that was needed was good will, co-operation and suitable administrative arrangements between the various local authorities concerned. He hoped the Minister could assure them that the Government intended to promote proper arrangements for consultation between the local authorities.

MR. GEOFFREY RIPPON said he was concerned that there would be a clear conflict of authority between the fire authority carrying out its new duty and the district councils carrying out their by-law functions under the Public Health Act, 1936, to approve the plans of the proposed factories submitted to them. A great difficulty might arise if the builder of a factory sent a duplicate set of plans to the fire authority and both authorities reached their decisions simultaneously, one approving a structure of wood and the other stating that it must be a structure of steel. They had both made their decisions but there was clear conflict.

SIR CYRIL BLACK said the district councils would still have the same kind of powers in respect of flats, tenements, shops and other buildings more than two storeys high as it was proposed to take away from them in respect of factories. He was satisfied that the right way was to leave the duties as they were at the moment, with district councils, but to make it obligatory on district councils to consult the fire authorities before reaching a decision.

MR. READER HARRIS said there was a compulsive reason why the certification duties should be placed on fire authorities. That was that at the time of the Keighley fire, 20 years after the 1937 procedure for certification was instituted, still less than 50 per cent of factories in this country had been certified. Merely to certify that a factory had suitable means of escape was less than half the battle. The important thing was to follow-up inspection. The only people who could do that job properly were the fire prevention officers and the fire authorities. MR. HOWELL commented that if a fire authority had to certify a factory as being fire-proof, it was worth offending district councils who wanted to remain in their little domains as the certifying authorities.

Up-to-date Exits

MR. D. JONES wondered if there was to be any form of statutory consultation between the fire prevention officer and the planning authority in passing plans for a new factory in order to ensure that when a factory was built it had the most up-to-date means of exit in the event of fire.

MR. ROBENS, from the Opposition Front Bench, said they were not concerned with rivalries between local authorities but with the safety, in relation to fire hazards, of the 7 or 8 million workpeople who worked in factories. The people in whom he was prepared to put his trust in relation to the whole question of fire hazard were the fire prevention officers. He hoped the Minister would say that because some district councils were responsible for looking at the plans of buildings, there would be consultations, but he (Mr. Robens) wanted the responsibility of the law put on the fire prevention authority.

MR. WOOD, replying to the debate, said that put very simply, the conflict of authority likely to exist under the arrangements now suggested was that the means of escape, which was part of the structure, would be the responsibility of the fire prevention authorities, while the structure as a whole, and the building by-laws which the district councils must approve, would be the responsibility of the district councils. It was clear some means must be found to overcome the difficulty. He did not know what that means would be but he would give an undertaking that they would try to find some way of dealing with the problem and if necessary they would table an amendment when the Bill went to the House of Lords. He would like to try to think of ways to make consultation as full and effective as possible.

The amendments were agreed to.

MR. WOOD moved another amendment to give effect to an undertaking he had given earlier on to a suggestion that plans should be submitted with any application for a fire escape certificate. It was suggested in the amendment, which was agreed to, that the Minister should have power to make regulations specifying what kind of plans might be necessary. It was a rather complicated matter, said Mr. Wood, because the kind of plans necessary would probably vary from case to case.

On the clause dealing with powers of entry of officers of fire authorities, amendments were agreed to which had the effect of providing that when a fire brigade officer was designated to carry out the duty of examining fire escapes, it should also be possible for a factory inspector to empower him to look at other fire matters. Mr. Wood said it was agreed in the committee that the factory inspector should empower officers of fire brigades only with the consent of the fire authority, and in one of the amendments they were trying to achieve that. In practice he did not think there would be any great difficulty.

Moving the third reading of the Bill, MR. IAIN MACLEOD, Minister of Labour, said they had made an enormously important stride forward in the clauses dealing with fire prevention, particularly by introducing for the first time the conception of prevention. The Bill was only a framework. The work had not yet started and they must look to both sides of industry, to local authorities, to the safety, health and welfare department of the Ministry and to Factory Inspectors to make sure that what they had tried to do in words would be translated in time into deeds.

The Bill was read the third time and in the House of Lords on April 15 it received its formal first reading.

EXCLUSION OF FEDERATION OF MASTER BUILDERS FROM NJC

THE exclusion of the Federation of Master Builders from the National Joint Council for the Building Industry was mentioned on April 21, when MR. GRAHAM PAGE moved a proposed new clause and an amendment to the Terms and Conditions of Employment (formerly the Wages Council (Amendment) Bill), which later completed its report stage and was read the third time.

Mr. Page said his proposals related to Clause 8 (Settlement of claims as to recognised terms and conditions of employment) which was added to the Bill following discussions between the Minister and the TUC and British Employers Confederation. That clause provided that where a claim was reported to the Minister that terms or conditions of employment had been agreed and were not being observed, the Minister could take steps to settle the claim and that if he failed to settle it, he had to refer the matter to the Industrial Court. To give the Minister that power the clause stated that the parties to the agreement or award must represent a 'substantial proportion' of the employers and of the workers in the trade affected.

The new clause and amendment he was moving were intended to ensure that it was a matter for the judgment of the Industrial Court whether the parties to an agreement or award represented a substantial propor-

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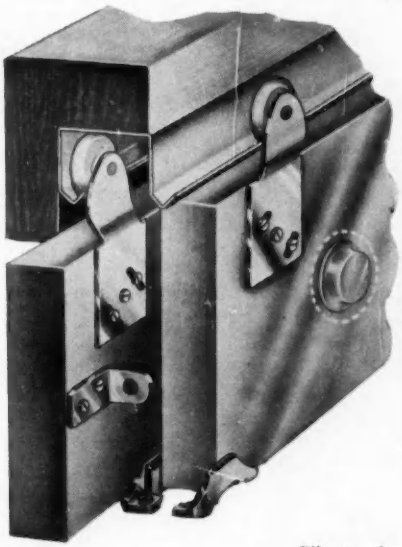

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CFH/8SE 58

tion of the industry, and that the decision was not a kind of hole-and-corner business between those who already had a vested interest on the voluntary joint councils. The clause was an effort to ensure that there was a fully representative body before any claim arose.

The new clause sought to ensure that by requiring the Minister to consider any representations made to him by representatives of one side or the other that they represented a substantial proportion, and to refer those representations for decision to the Industrial Court. If an association, federation, or union claimed to represent a substantial part of an industry but was not at present on the voluntary joint council, it should be permitted to put its case to the Minister and the Minister should then refer the point to the Industrial Court for a decision.

Added Mr. Page: 'I appreciate that these voluntary joint councils are intended to be purely voluntary but certain bodies ought not to be allowed to usurp power on those councils—and I use that rather strong phrase intentionally to describe what I believe is happening in some cases at present.'

Explaining the position by means of an example, Mr Page said the Federation of Master Builders, which was formed in 1943 after the Emergency Regulations took effect, had been refused representation on the Joint Council in spite of repeated applications. Not only had it been refused representation but it had been refused even prior consultation with those on the Joint Council. So a body which represented 11,500 employers in the building trade was refused any sort of representation or any kind of consultation with the Joint Council which had to decide the terms and conditions of employment in the building trade. It represented a substantial portion of the industry.

MR. F. LEE, from the Opposition Front Bench, said he would counsel the Parliamentary Secretary to the Ministry of Labour that merely because an association of employers in the building industry was being excluded from the counsels of the National Joint Council for that industry, this did not, as the Opposition saw it, call for legislation to put right something considered to be wrong.

MR. RICHARD WOOD, Parliamentary Secretary to the Ministry of Labour, said that, although he did not go the whole way with Mr. Lee in his suggestion that Mr. Page was trying to achieve too much by legislation, he was the first to agree about the legislative shortcomings and had said so on a number of occasions about a number of different cases.

After reviewing what he understood to be the object of the new clause and amendment, Mr. Wood said it was clear that the matters about which Mr. Page had been speaking were fairly well known. Mr. Wood added: 'While it is not for me to suggest what should be done, the Industrial Court would be bound to consider all relevant matters before it came to its decision as to whether the negotiating bodies did, in the words of the Bill, represent "a substantial proportion," or not.'

Although he could not agree to accept Mr. Page's proposals, he could assure him that the kind of considerations which he would like the Industrial Court to take into account —although none of them should presume to make up their minds what the Court would take into account—would be bound to be in the mind of the Court if it was trying to decide the matter. The important matter which the court would have to decide was the positive question whether a substantial portion of the trade was represented by the negotiating bodies. Naturally the Court would examine all relevant facts to reach that conclusion.

The proposed new clause and amendment were withdrawn.

RIBA AMENDMENT TO PLANNING BILL REJECTED

AN amendment to the Town and Country Planning Bill which provided that the Exchequer should pay an additional grant in respect of additional compensation paid, was defeated by 54 votes to 19 on April 23 when the House of Lords began the committee stage of the Bill. There were 169 amendments on the order pad, many tabled by the Government, and other days are being needed to consider them.

LORD SILKIN said his amendment was sponsored by the RIBA so that it did come of 'fairly respectable parentage.' It sought to provide that where a local authority were required to pay by way of compensation more than they would have paid under the previous procedure, the Treasury should have the right—but not be obliged—to make a contribution towards the excess. The case for the amendment was that most local authorities would have planned ahead for the redevelopment of their areas and for compulsory acquisition arising from them, and would have based their finances on the assumption that the cost of acquisition would be on the basis of the 1954 Act.

VISCOUNT KILMUIR, the Lord Chancellor, said he had had the chance of considering what the RIBA had said. The Institute did not submit to the Minister any comments on the Bill until after the statement of Lord Silkin and there had been no opportunity to explain to the Institute the many fallacies in the arguments they had advanced. He yielded to no one in his admiration and respect for the Institute or its members but with the greatest respect to them, he would suggest they were hardly the body qualified to make recommendations on the division of financial responsibility between the Exchequer and local authorities.

He would like peers to consider the statement made, which formed the basis of the Institute's argument, about the effect of the Bill on the preparation of development plans. Development plans indicated proposals for future public development and allocated or zoned areas for private development. In indicating future development the plans, he would say, depressed values rather than enhanced them. That was why, for example, the 'blight' clauses were necessary.

Zoning areas for private development plans would only enhance values in so far as they created scarcity by zoning less land than would meet the demands of the market. In neither case, therefore, would the Bill induce authorities, as the Institute thought, to show less land for either public or private development than was needed on an objective view. What it would do, through the 'blight' clauses, would be to make authorities chary of including vague proposals for public development which did not need to be safeguarded and might never happen. That in his view was all to the good.

It was unlikely on average, he continued, that additional expenditure would involve much more than 1 or 2 per cent of total local authority expenditure and he would re-assert that some of this would be assisted by grant. To the extent that services operated by the local authorities were increased by the Bill the Minister would be obliged to take that into consideration in fixing the general grant under the Local Government Act. In other grant categories local authorities would also benefit and he submitted this was a perfectly fair arrangement for the Exchequer and local authorities.

OTHER BUSINESS

Grand Theatre, Croydon

MR. BROOKE, Minister of Housing and Local Government, said in reply to a question by Mr. Kenneth Robinson on the Grand Theatre, Croydon, on April 14, that representations had been made to him by the Croydon Theatre Trust that the permission to redevelop should be revoked, but this was a matter which ought to be left to local decision and he was not prepared to intervene. Revocation would involve compensation and might cost the ratepayers about £50,000.

LIFT-SLAB CONSTRUCTION FOR NINE-STOREY FLATS

Birmingham to Adopt Method

LIFT-SLAB construction, though well established in the United States for industrial and commercial uses, has never so far been used in this country or indeed applied to housing anywhere, says a statement issued by the Birmingham City Architect's Department.

Its approval by Birmingham Corporation for the building of multi-storey flats is, therefore, a pioneer development of great significance.

The scheme put forward by the City Architect, Mr. A. G. Shepard Fidler, FRIBA, and approved by the House Building Committee at their meeting on April 16, is for three blocks of 9-storey flats on the Corporation's Long Nuke Road Estate, at Northfield.

Plans used for standard type flats already under construction elsewhere in the city will be adapted to meet the requirements of R. M. Douglas (Contractors) Ltd. This firm holds the operating rights for the American system in this country and, subject to Ministry approval, a contract for the structure of the new blocks will be negotiated with them.

It is believed that gains in safety and speed of erection and the possibility of working under cover immediately roof and floor slabs are jacked into position will make the cost of the lift-slab flats competitive with more conventional methods. Further developments with purpose designed blocks of flats are already under consideration.

'ARCHITECT'S FOLLY'

Building Surveyors Suffer, Says QS

MR. E. W. COOPER, FIQS, MRSH, speaking at the annual dinner of the Building Surveyors' Institute, London & Home Counties Area, held on April 15 at the Piccadilly Hotel, W1, said 'The building surveyor is a sorry platform in the industry today. Other bodies have closed their doors to him. He suffers for the architect's folly and his is the most hazardous occupation in the world.'

Continuing, Mr. Cooper said that the building surveyor had much to offer the industry, but most of the work he did was not appreciated.

Referring to the formation of the Institute, to which he was proposing the toast, he said: 'The strength of this organisation is a growing tribute to the policy of the early committee members who chose quality rather than quantity.'

MR. H. T. PATON, FBldgSI, past president, in his response, appealed to members to stimulate the organisation by recruitment and general drive.

The toast to 'The London Home Counties Area' was proposed by MR. J. L. CURTIS, FRIBA, FRICS, in place of Mr. S. C. Greatrix, FBldgSI, immediate past president, who was unable to attend due to illness. MR. G. T. CHEQUERS, FBldgSI, chairman, in responding said that the area was making good progress both in membership and in the number of activities participated in. 'If we all play our part we can make this area a healthy offspring of the Institute,' he said.

A toast to 'The Guests' was proposed by MR. C. P. SIMPSON, FBldgSI, and responded to by MR. D. WRIGHT. Toastmaster was Mr. B. R. Saxby, ABldgSI.

BUILDERS' BENEVOLENT INSTITUTION

99th Annual Dinner

MR. A. H. LEY, FRIBA, MIStructE, was the principal guest at the 99th annual dinner of the Builders' Benevolent Institution held on April 21 at the Dorchester Hotel, Park-lane, W1. In proposing the toast to the Institution Mr. Ley referred to the fact that it had been formed in 1847 'for the relief of decayed masters.' The first annual dinner was held in 1848 and during the evening the sum of £300 had been donated towards the funds of the BBI. 'Since then,' he said, 'the work of this fine organisation has been continued and has rightly enjoyed the support of all branches of the industry.'

At present the Institution was making grants and providing pensions for some 50 or so people. The oldest recipient was now 92.

In responding, LT. COL. T. G. GALBRAITH, FIOB, president of the Institution, expressed his appreciation to those who had given so generously during the past year. He emphasised however that if the Institution was to spread its coverage of the country in the work it did it would be necessary in future for it to have more than the present yearly total of over £2,000.

The toast to 'The Guests' was proposed by COL. K. J. PEARCE, TD, FIOB, president of the London Master Builders' Association, who said that the wide coverage of the Institution was indicated by the guests in attendance that evening who came from all parts of the country. 'It is up to us,' he went on, 'to look after our own people ourselves and not to leave it to others.' Mr. T. V. PROSSER, FIOB, president of the NFBTE, responded.

AMERICAN PLASTERERS' VISIT

Discussions with NFPC

THE National Federation of Plastering Contractors, which is affiliated to the NFBTE, will be acting as hosts during the visit to this country of eleven members of the Contracting Plasterers and Lathers' International Union of the United States of America and Canada between May 8 and 19 next.

On May 11, from 2.30 p.m. to 5 p.m., the Americans will be having a conference with the NFPC Council and the members of the London Master Plasterers' Association in the Council Chamber at NFBTE headquarters. The subjects to be discussed are:

1. Mechanisation of plastering operations—the use of mechanical methods is widespread in the USA, both for pumping plaster to the operative on the job and for applying the first coat. The use of these methods seems likely to spread to the UK and the NFPC is studying the subject.

2. The use of vermiculite and plaster cladding for steelwork instead of the more traditional concrete casing—it is claimed that the former method gives excellent fire protection and cuts cost and the NFPC is helping in the preparation of a detailed report on the subject with a view to vermiculite and plaster cladding for steelwork being more commonly practised in the UK.

3. The proposed Plastering Bureau, with special reference to the Bureau of Publicity established by the American plastering industry and the efforts being made in the UK to make the work of the plastering industry here more widely known.

MAIDSTONE CONTRACTS

To Be Conditional on Employment of Apprentices

FOLLOWING REPRESENTATIONS to the Maidstone Borough Council from the Maidstone and District Local Joint Apprenticeship Committee for the Building Industry, the Council has decided that as from the beginning of November no tender of over £1,000 for building work will be accepted by them unless the tenderer certifies that he has in his employment at the date of his tender apprentices and skilled craftsmen in the following ratio: Up to 15 skilled craftsmen—one apprentice; more than 15 but not more than 25 skilled craftsmen—2 apprentices; more than 25 but not more than 35 skilled craftsmen—three apprentices, and so on in proportion (except that if the tenderer can produce a certificate from the Youth Employment Officer that candidates for apprenticeship have not been available or can satisfy the Council that after making reasonable endeavour he is employing as many apprentices as he is able to indenture, this shall not apply).

COMPANY NEWS

George Wimpey & Co., Ltd., recommend payment of a dividend of 10 per cent (unchanged) on the ordinary share capital of the company for the year ended December 31, 1958.

TRAINING YOUNG BUILDERS

Eastern Federation's Programme

THE high standard of senior apprentices was fully maintained at the Eastern Federation's third annual course held at Belstead House, Ipswich, from April 17 to 19. Thirty places were awarded to the best apprentices of the year and the week-end was spent in considering the wider problems of building and its place in the National economy.

At the opening session Mr. Ian Leslie, editor of *The Builder*, spoke on 'Building as a Career,' referring to the opportunities for the future and the challenging problems which would arise.

Saturday was devoted to the consideration of 'The Structure of the Building Industry,' on which Mr. C. E. Wadley, vice-president of the Eastern Federation, spoke to the apprentices and on 'The Meaning of Management.' In the evening the apprentices were given an illustrated talk on architectural appreciation entitled 'Accident or Design' given by Mr. Douglas Harding, ARIBA.

Sunday was devoted to consideration of 'The Economic Outlook' on which Mr. F. V. H. Ramsbottom of Cambridge University spoke, and 'How Building Research helps the Building Industry' dealt with by Mr. H. J. Eldridge of the BRS.

There was ample time for discussion, informally and in discussion groups, and the exchange of views was a valuable part of the course.

The apprentices who attended were:—

P. B. Adams, Sawston; T. A. Ambrose, Cambridge; A. G. Barker, Southend; R. K. Baxter, Bury St. Edmunds; R. Blythe, Luton; A. S. Brinkley, Bury St. Edmunds; G. Carpenter, Coney Weston; A. Clare, Luton; R. Costin, Luton; W. J. Davy, Gt. Yarmouth; R. P. Dilley, Letchworth; A. R. Felstead, Chelmsford; J. Ginger, Luton; D. Gooden, Luton; B. E. Gunton, Sprowston; D. Gurnhill, Bedford; E. W. Harris, Gt. Yarmouth; Dr. R. Hope, Norwich; A. Housden, Fordham; G. R. Lingwood, Dereham; J. H. Lofthouse, Bury St. Edmunds; H. F. Mager, Hitchin; E. J. Norris, Woodbridge; C. J. Parton, Birch; R. Shanks, Halstead; B. R. Skeet, Frinton; D. Smith, Ely; J. C. Ward, Thorpe Bay; B. Warren, Cambridge.

General Foremanship Course

A further course for general foremen was held at St. Edmunds House, Cambridge, during the week-end of March 20-22. This was well attended by foremen who had already benefited from the previous course, and a very full week-end was spent on lectures and discussion on work study, research, mechanization, contract law and economics. As in the senior apprentices' course, there was a lecture on the Saturday evening on architectural appreciation.

One Day Courses

The importance of mechanization has been fully recognised in two one day courses which will run in May. The first to be held on May 1, at the Luton College of Technology, will be on all aspects of building plant, the speaker being Mr. P. Hands, AMIMechE, plant manager (Y. J. Lovell & Son, Ltd.). The second course will be held at the County Hotel, Chelmsford, on May 11, when Mr. S. D. Neaverson of the Building Advisory Service will speak on 'Preventive Maintenance and Costing of Plant.'

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 51 of this issue. The form can be used for more than one inquiry.

PAINT

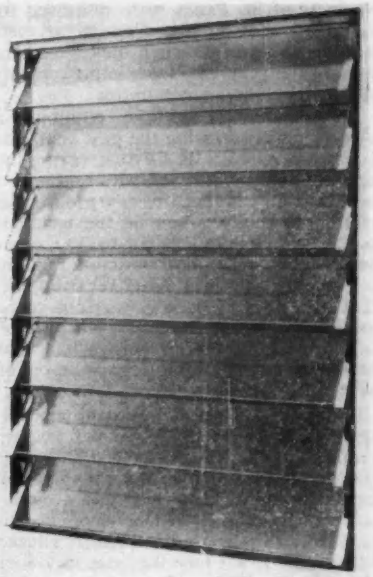
'GAYMEL' FLAT ENAMEL: This material, which supersedes 'Gaymatt' flat finish, is a truly flat finish based on a reinforced alkyd medium which has a gel structure. It does not require any undercoat and can be applied directly over itself. Available from stock in 36 colours. Additional colours can be supplied if required.
R. Gay & Co.,
93-97 New Cavendish-street, W1.

ROOFING

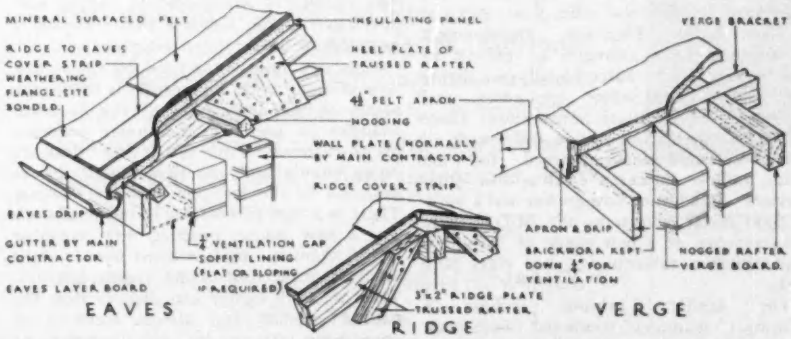
LARGE SPAN ASBESTOS SHEETING: A new design capable of spanning purlins at up to 9 ft. 6 in. centres. Named the 'Magnum,' it is an extremely robust, deep-sectioned sheet which forms a stiff beam. Particularly suitable for low-pitched frameworks of the more massive type. The sheet is moulded in ⅛in. thick material. The 9 ft. 6 in. roof purlin spacing is made possible by a 7in. overall depth of corrugation, giving greater beam strength with an adequate safety margin. The spacing of the corrugations is 18 in., giving three corrugations in an overall sheet width of 3 ft. 4 in. with a net cover of 3 ft. The 4in. side-laps are deep and well weathered. The end lap is a minimum of 6 in., with the use of a new butyl jointing strip known as 'Foamjoint.' This cellular synthetic material is rot-proof and seals the joint completely. The minimum roof pitch is 4 degrees. Sheets are made in lengths of 4 ft. to 10 ft. by 6in. increments. Their weight as laid is approximately 47.25 lb. per sq. yd., including normal fixings. Moulded underlining sheets will be available.
Universal Asbestos Manufacturing Co. Ltd.,
Tolpits, Watford, Herts.

PREFABRICATED INSULATED FELT ROOFING: Panels consisting of a layer of mineral surfaced roofing felt bonded with bitumen to load-bearing insulating roof deck panels 2 ft. wide and 6 ft. long. Panels are normally special quality wood wool slabs, 1 in. thick, but greater thicknesses and other suitable types of slab can be used where preferred. A projecting flange is provided along one long side of each panel which, when fixed on the roof, weathers the upper edge of the adjacent panel lower down the roof slope. Weight of covered panels is approximately 5 lbs. per sq. ft. Special short or narrow panels are used where the ridge length or length of roof slope does not suit an exact number of standard panels. Pitches from 15 to 20 degrees are recommended, but somewhat steeper pitches and lower pitches down to 5 degrees may be used where appropriate. With a ceiling of ½ in. insulating board the 'U' value of the roof construction, using 1 in. wood wool slabs in the roofing panels, is 0.21. With a ceiling of ⅜ in. ordinary plasterboard the 'U' value is 0.27. Additional insulation can be added economically if desired by laying quilt, foil or loose fill between the ceiling joists. The manufacturer will design, supply and erect trussed rafter timber roof framing (impregnated if required) for any suitable span or pitch which, together with the prefabricated roofing panels, provides an economical form of construction. (Illustration.)
Broderick Insulated Structures Ltd.,
Hermitage-road, Woking, Surrey.

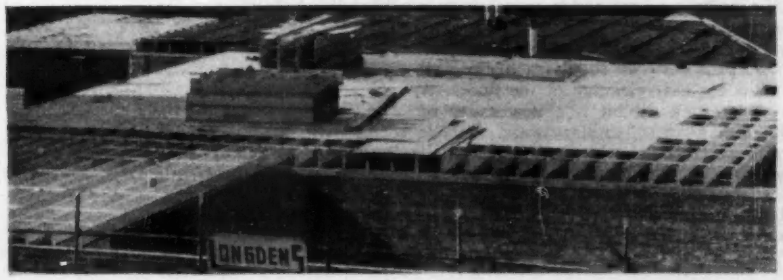
LOW COST TIMBER DECKING: Basically a system of lightweight timber panels of solid or laminated longitudinal members at 1ft. 4in. centres, interlocked with 1 in. × 2 in. noggings. The upper surface is covered with 5/16 in. plywood sheathing or alternative types of cladding. The panels are designed to support loads of up to 80 lbs. per sq. ft. and may be used for roofing or flooring. The range of spans covers up to 21 ft. The decking has no modular restrictions and the individual panels are spaced apart with a variable gap not exceeding 16 in. giving complete flexibility in planning and also dealing with all building tolerances. Provision is made for rooflight openings to take up to 4 ft. wide domes. (Illustration.)
H. Newsum Sons & Co. Ltd.,
238 High-street, Lincoln.



A 'Fenesta' louvre window



above: Details of Broderick insulated felt roofing. below: An example of Newsum timber decking



WINDOWS

'FENESTA' LOUVRE WINDOWS: Designed primarily for overseas markets but suitable for certain uses in this country. The louvre consists of two jamb units cold formed from galvanized sheet steel, to which are attached pressure-cast non-rusting blade carriers, operated from the left hand inside jamb by a lever locking handle. The carriers take glass blades 6 in. wide, from 32 oz. to ¼ in. thick. The bearer incorporates a spring clip which holds the glass in place and prevents rattling, and the louvre is so made that it can in fact be opened to 5 degrees beyond the horizontal. The louvre will give up to 100 per cent ventilation, and will stay open in any position: it will give exceptional protection against weather, including tropical conditions. Almost any height of opening can be filled by the twelve standard heights, while the mullion coupling detail makes it possible to fill any width. It is easily installed by screwing two jamb units into place. (Illustration.)
The Crittall Manufacturing Co. Ltd.,
210 High Holborn, WC1.

BUILDING IN THE CITY

Terminal Sections of Route 11 Cause Common Council Discussion

ROUTE 11—the City of London's proposed new main road—and the precincts of St. Paul's were discussed by the Court of Common Council at their meeting on April 23 when they were considering the report of their improvements and town planning committee.

An amendment to the committee's review of works during the past year was moved by MAJOR S. E. SANDLE, saying the report should be received with regret that there was no reference to any progress in relation to the problem of the terminal sections of Route 11, or to the committee's proposed course of action relating to a recent Ministerial letter regarding St. Paul's Precinct. Route 11 was due to be opened in a few months, said Major Sandle, but still the committee had told the Court nothing about the solution of the problem of the terminal sections.

The committee (he said) were recommending that day that they should acquire premises in Little Britain for £50,000 which were on Route 11 but he did not think the committee were right to make such a recommendation when they had not submitted to the Court a solution for the Route 11 scheme at that end. It was time they said they were tired of spending public money on the scheme and they should ask to be allowed to go ahead with their own ideas.

Replying, the chairman of the committee, MR. BENJAMIN ARTHUR, said progress was being made on the plans for the terminal sections of Route 11 and discussions with the Minister of Transport on the final details of the Route were in fact almost complete. On the St. Paul's Precinct, he said that as soon as current negotiations with interested developers were complete the necessary report would be submitted to the Court.

Major Sandle's amendment was not carried.

MR. F. C. ANDERSON then moved the reference back to the committee's recommendation concerning the property in Little Britain. The committee, he said, had reported that they had received a request from the owners of the freehold interest of 75 and 76 Little Britain asking if the Corporation would purchase their interest 'in view of difficulties in disposing of the property on account of the Corporation's proposals for the extension of Route 11 to Newgate-street,' and the committee were recommending the purchase of the property by agreement under section 40 of the Town and Country Planning Act, 1947, subject to the Minister's consent. The Committee said the terms of compensation approved by the district valuer were £50,000 plus £526 6s. surveyors' fees and the proper legal costs.

Moving the reference back, Mr. Anderson said the Route 11 plan was so little developed at that end that it was undecided whether this five-storey building was required for a road or an open space. It was totally wrong that the ratepayers should find themselves in the position of paying £50,000 to fit into a plan which had not been finalised and which might never be put into effect.

Seconding the reference back, MAJOR S. E. SANDLE said it was quite wrong to invite the Court to purchase the building against the possibility of approval by the Court of plans which had not yet been put to it.

Replying, the chairman of the committee, MR. BENJAMIN ARTHUR, said that although the land was not as yet designated, amendments had been proposed to the development plan which would include this land in connection with the extension westwards of Route 11. 'The premises can therefore be described as being affected by planning blight,' said Mr. Arthur. The property would have to be bought sooner or later because it was right in the line of the new road, he added.

The reference back was defeated and the committee's recommendation was approved.

At question time MR. STANLEY COHEN asked the chairman of the improvements and town planning committee what powers he possessed in regard to new developments to prevent noxious gases emitted from chimneys becoming prejudicial to health, or a nuisance. MR. ARTHUR replied that the questions raised matters of extreme complexity and he would arrange for a memorandum to be prepared by the appropriate officers and sent to Mr. Cohen in due course.

Among recommendations also made by the improvements and town planning committee, which were agreed to by the Court, were that the following developments should be permitted: At 149-160 Cheapside and 39 Foster-lane, erection of a new office block with a restaurant, shops and a basement car park (architect, A. F. Watson, 13 Gillingham-street, SW1); and at 20-40 (even) Gresham-street, 26-27 King-street, 16-19 Lawrence-lane, 7-11 Mumford-court and 9-12, 12a, 13 and 14 Milk-street, erection of a new six-storey office building, with car parking in the basement (architects, Ellis, Clarke and Gallannaugh, 37 Soho-square, W1).

Permission was refused for the erection of a building for office use at 1, Sun-close (partly within the city and partly in the Metropolitan Borough of Finsbury), within the central section (Part B) of the Comprehensive Development Area. The reason given for the refusal was that development of the site as a separate unit would prejudice the comprehensive development of the area. Approval was given to drawings in respect of the erection of a warehouse with shops on the ground floor fronting Bishopsgate (architects, J. Douglass Mathews and Partners, Ebury-street, SW1).

NEW BUILDING MATERIALS TO BE ON VIEW

Exhibition at the Building Centre

From a Correspondent

THE Building Centre is to hold an Exhibition of New Building Materials, which is to be opened on May 5 by Mr. Harmar Nicholls, MP, Parliamentary Secretary to the Ministry of Works.

About 70 new products will be shown covering most of the building industry trades. The majority have been mentioned in recent issues of the Building Centre's monthly list of new materials. They are all new, within the last few months, and many of them are being exhibited for the first time.

The British Electrical Development Association have arranged an exhibit of time-switches for automatically switching on heating and other appliances, and various other electrical accessories. There is also a new skirting and a dado made of a rigid coloured plastic material. Both are made hollow to carry electric and other services. In addition to a cooker and a built-in food mixer, shown by the BEDA, there are examples of a new range of 'Countryman' kitchen cabinets and two glass fibre sinks.

The sanitary exhibits include a 'Formica' vanitory combined wash-basin and dressing table, new mixing valves, a combined bath waste and overflow unit, a prize-winning wc seat and a urinal with a built-in cistern. Also some of the new 'Sculptura' range of sanitary fittings and two wc pans designed for fixing to the wall to allow for easy cleaning of the floor. A very interesting exhibit is a new range of 'whiter than white' sanitary ware. Set, as it is, beside normal white sanitary ware it reminds one of a famous washing powder advertisement.

There are several new windows in the exhibition including two new sliding windows, two plastic windows, and a cheap 'double' window which gives added insulation and is made by clipping a clear plastic sheet inside the frame. Pilkingtons are showing a sample of their new 'float' glass, manufactured by an entirely new process: the molten glass is made to flow across the surface of a bath of white hot molten metal which imparts to it an extremely smooth, brilliant surface.

Several new acoustic tiles are being shown, not only the usual flat tiles, but also conical and pyramidal tiles which give a larger acoustic area than that of the wall or ceiling to which they are fixed.

The walls of the exhibition gallery itself are lined with asbestos-cement sheets with new finishes of many colours. Other wall coverings include stainless steel tiles and a new plastic tile.

Although most of the products shown are, like so many other new products today, the result of the application of the chemical industry to building, traditional materials are in evidence. Four new facing bricks are being shown and the new double bricks designed by the Building Research Station. There is a wall of modular (4 in.) brickwork and a new Italian product, now available in this country: prefabricated marble slabs made from the dust of the marble quarries. They are both lighter and cheaper than the natural product and almost identical in appearance. There are also samples of stone from a recently re-opened quarry in the Lake District.

The exhibition will be open daily from May 5 until May 16, and on May 19.

Prefabricated Building

A well illustrated book, 'Prefabricated Building: A Survey of Some European Systems,' has been published by the European Productivity Agency of the Organisation for European Economic Co-operation. Copies from HMSO, price 12s. 6d.

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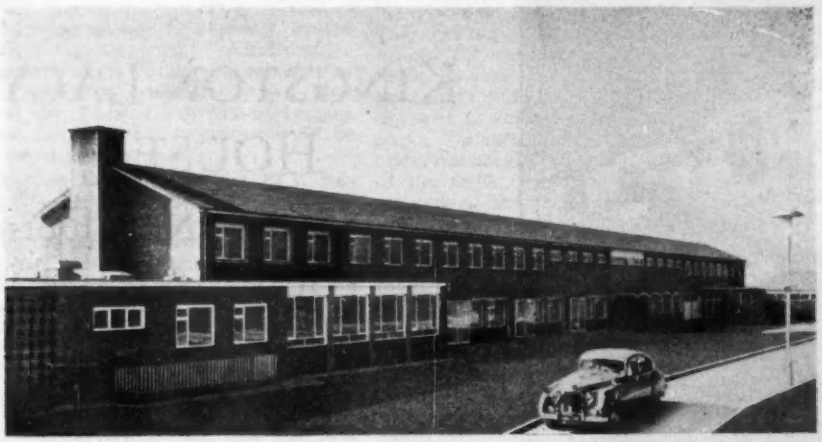

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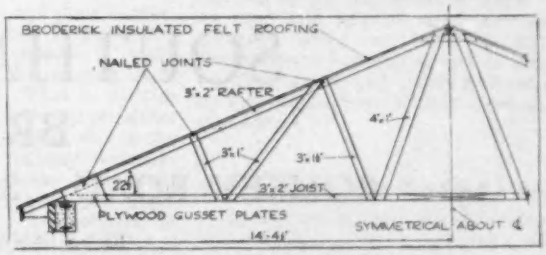

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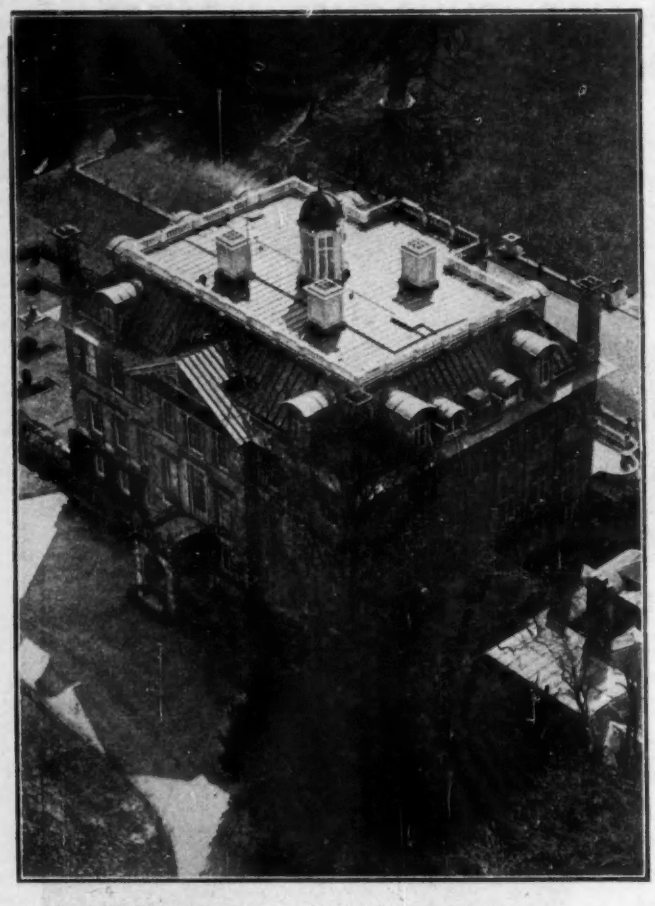

Chartered Architects: Frederick Barber & Partners
5 Apple Market, Kingston-upon-Thames, Surrey

RESTORATION WORK AT KINGSTON-LACY HOUSE
Nr. WIMBORNE, Dorset
(Built 1663)

The entire roof lead work of about 40 tons removed and all structural roof timbers affected by death-watch beetle or dry rot, renewed and/or treated. New lead covering laid throughout and balustrading reconstructed. Defective stonework restored to all elevations and roof.

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RAILWAYS INTO ROADS?

A Lively Discussion

ARGUMENTS for and against turning railways into roadways were discussed before a crowded audience of both road and railway enthusiasts at Caxton Hall, London, on April 14. A panel of speakers, representing the two opposite points of view, answered questions from both factions in the audience. Replies from each side were greeted by cheering, laughter and applause from the rival camps. MR. B. W. PENDRED presided.

The meeting was held jointly by the Railway Development Association—ardent advocates of the modernisation of main, secondary and rural branch lines—and the Railway Conversion League, whose theme is that railways should be converted into motorways.

Opening the case for the RCL was MR. GORDON ENGLAND, who was trained as a railway engineer, later became a racing motorist and designed motor cars, and has held an air pilot's licence since 1909. ('It's a curious thing I'm the only railway man in the audience,' he remarked.) Mr. England said he looked at this as a national problem. The nation was faced with a traffic crisis. Traffic facilities must either serve the national interest or be supplanted. 'The crisis is one of immense gravity and size and requires something of an imaginative kind to be done.'

How many people had really understood the importance of movement in the cost of everything in our society? Movement accounted for 70 per cent of the total cost of everything. This was likely to be a determining factor in the country's ability to compete in world markets. Road transport accounted for 80 per cent of the traffic of the nation. It was forecast that by 1967 the number of vehicles on the roads would be double the present 7½ million. In the environment of today, millions of citizens had found that transport by road was a preferable method. 'But if you get congestion on the roads to the stage of paralysis,' he said, 'it might be a death blow to the nation's capacity to compete.'

Solution Needed

A solution to the problem must be found which did not attempt to set the clock back. All we needed as a nation was free-flowing traffic—the freer the better. 'The Railway Conversion League says that traffic free from all restrictions is necessary to safeguard Britain's economic security.' It would be impossible as things stood to build sufficient roads to be adequate to the needs of the nation. Civilian traffic, he added, should not be subsidised. 'The only way we see of achieving the nation's needs is by converting the railways to a new system of roads. They would be so far ahead of anything any other nation is doing that Britain would establish a leadership which it would be very hard to overtake. The alternative to this visionary and imaginative view is economic strangulation.'

An important point was that the morale of railwaymen had been greatly lowered. 'If they thought that their splendid asset was being turned to a right and proper use—a developing use—I am sure they would regain their morale and know their futu was assured in this new field.'

Case for RDA

MR. B. D. J. WALSH, hon. secretary of the Railway Club, opened the case for the Railway Development Association. This case did not stand simply and solely against the conversion of railways into roads, he said. The Association encouraged traffic to use the railways, but it did not wish to abolish other forms of transport. 'We agree there is a national traffic crisis, but not that roads carry 80 per cent of the traffic. Railways carry over 50 per cent on the basis of ton mileage, and probably about three times the long distance traffic on the roads,' he declared, adding the conversion of railways into roads would increase the road mileage of the country by only 10 per cent. Chaos was on the roads, not the railways.

'Are we to abolish the one form of transport where chaos does not reign and extend that where chaos does reign?' It was a simple engineering principle that a rail on a narrow running surface reduced friction. Railways were much more efficient economically. Long trains took full advantage of increased mechanical efficiency.

Amid great applause, Mr. Walsh referred in contrast to the 'horrible experience' of the Preston motorway, 'on which no trouble or expense was spared.'

After speaking of safety devices on railways, which sought to eliminate the human factor, Mr. Walsh said that for that reason alone more traffic should be attracted to the railways. Railways also had the responsibility of dealing with unexpected surges of traffic. 'That is of enormous value to the nation,' he said.

Regarding the physical difficulties of conversion into roadways, he said that the full width of a double track was only 22 to 24 ft., and 22 ft. was the minimum width laid down by the Ministry of Transport for roads of the present type. 'The situation with single lines is even more fantastic. They are 13 ft. wide, against the Ministry of Transport's 16 ft. for even minor roads. That is without a verge and with a sheer drop on either side.' The project, he added, was in the realms of extravagant fantasy—extravagant in more ways than one. How could there be sufficient check on the roadworthiness of millions of vehicles to enable the converted roads to be used (in the words of the League) for 'really fast traffic?'

In a free-for-all question and discussion period which followed, the speakers and their supporting panel amplified their arguments further. BRIGADIER T. I. LLOYD, a founder-member of the RCL, was asked how he would eliminate accidents from human failure on the proposed new roads. He replied that while the human factor could not be eliminated, the accident rate in a better road system would fall, as it did on the American motorways. 'The accident business is tremendously exaggerated,' he said.

MR. R. F. R. HAMMOND, AMICE, was asked if the RDA was really a 'railway defence organisation.' He replied that the biggest power station required 10,000 tons of coal a day. BRIG. LLOYD said that the coal could be delivered in 24-ton lorries. He asserted, amid applause, that one lorry arriving every four minutes would be sufficient, and that even then the approach road would not be fully used.

MR. C. ROWE, for the RDA, was asked if railways were 'immune from the process of obsolescence,' by which such means as horses and sailing ships became in time obsolete.

He replied that while the roads were bogged down, railways were looking forward to a brighter future. The rail vehicle had evolved from the horse-drawn tram and there had been no retrogression. There was a good case for converting roads into railways rather than the opposite.

'Uneconomic' Private Cars

Another questioner, remarking that the pre-nationalisation railways never paid a dividend, asked if the root cause was over-capitalisation.

MR. HAMMOND: The Transport Commission are one of the biggest operators of road transport—an integral part of the whole transport system—while the railway construction programme is admirable. The only thing wrong is the enormous number of private cars, which are uneconomic.

BRIG. LLOYD: 'Over-capitalisation' implies that British Railways are handicapped. Their interest payments, £41 millions, are only 4 per cent on £1,000 millions. It is trifing compared with what they are losing. They own hundreds of acres of the most highly-priced land in the world and are losing astronomically larger sums than the capital charges.

MR. WALSH: Look at the problem properly. Capital was invested many years ago, when land was bought for sums far in advance of what it was worth. Before the war heavy remunerative traffic went by road and empties were sent on the railways, who were common carriers. The railways invested money in improving their worth, and if they had not done so they might have broken down during the war.

The Use of Fibre Insulating Board

Fidor (Fibre Building Board Development Organisation Ltd.) have published a booklet on the use of fibre insulating board to comply with the Thermal Insulation (Industrial Buildings) Act 1957. Under the title 'Factory Insulation,' the note shows how the requirements of the Act both as to 'U' values and fire-safety are met by the use of fibre insulating board in typical roof constructions. Copies free of charge from Fidor, Stafford-house, Norfolk-street, WC2.

The Builder

CURRENT PRICES OF MATERIALS

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	4	5
Pit Sand	"	1	2	8
Washed Sand	"	1	5	9
¾ in. Shingle	"	1	3	3
¾ in. Broken Brick	"	1	0	9
Pan Breeze	"		17	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	5	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	12	0
1 to 6 tons, site	"	6	4	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	"	6	2	6
1 to 6 tons do. site	"	6	14	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colocrete in 6-ton lots	"	8	12	0
Other colours according to colour.				
In 4-ton lots from 310s.0d. to 780s.0d. per ton				
White Portland Cement	"	13	17	6
Under 1 ton	per cwt.		16	11
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	4	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 10s. 0d. to £14 5s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	"	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	"	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	"	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	6	0

BRICKS

		£	s.	d.
Full Loads.				
First Hard Stocks	per 1,000	14	14	6
Second Hard Stocks	"	13	8	6
Mild Stocks (Kiln Burnt)	"	9	10	0
Mild Stocks	"	9	5	0
All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.				
2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	"	5	18	0
Cellular Commons	"	5	18	0
Keyed do.	"	6	0	0
Rustics	"	7	10	0
Cellular Rustics	"	7	10	0
Single Bullnose Commons	"	7	12	6
Sandfaced	"	8	10	0
Tuscans	"	9	5	0
Saxons	"	9	13	0
Golden Buffs	"	10	0	0
Dapple Light Facings	"	10	7	6
Heather Facings	"	10	3	0
Best Blue Pressed Staffs (London stations)	"	30	2	6
do. do. (London sites)	"	30	6	0
do. Bullnose (London stations)	"	30	16	6
do. do. (London sites)	"	30	18	0
Blue Wire Cuts (London stations)	"	26	19	0
do. do. (London sites)	"	27	0	6
Midhurst Lime Bricks (London sites)	"	10	15	6
Uxbridge Whites (London sites)	"	10	2	0
Special Purpose Sandlime Bricks (London sites)	"	7	18	6
2½ in. Best Stourbridge Fire Bricks (London stations)	"	30	12	3
2½ in. do. do. (London sites)	"	31	1	0
3 in. do. do. (London stations)	"	36	14	9
3 in. do. do. (London sites)	"	37	5	3
2½ in. Moler Flue Bricks (London sites)	"	29	0	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	per 1,000	16	6	6
2½ in. Machine-made Multi Red Facings (London sites)	"	16	11	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	"	16	18	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	"	17	8	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	"	19	3	6
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	"	19	3	6
Rubber Bricks for gauged arches (London sites)	"	47	11	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	"	14	4	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	"	16	0	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	"	64	0	0
Headers	"	63	0	0
Quoins, Bullnose and 4½ in. Flats	"	80	0	0
Double Stretchers	"	85	0	0
Double Headers	"	77	10	0
One side and two ends	"	87	0	0
Two sides and one end	"	89	10	0
Splays and Squints	"	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

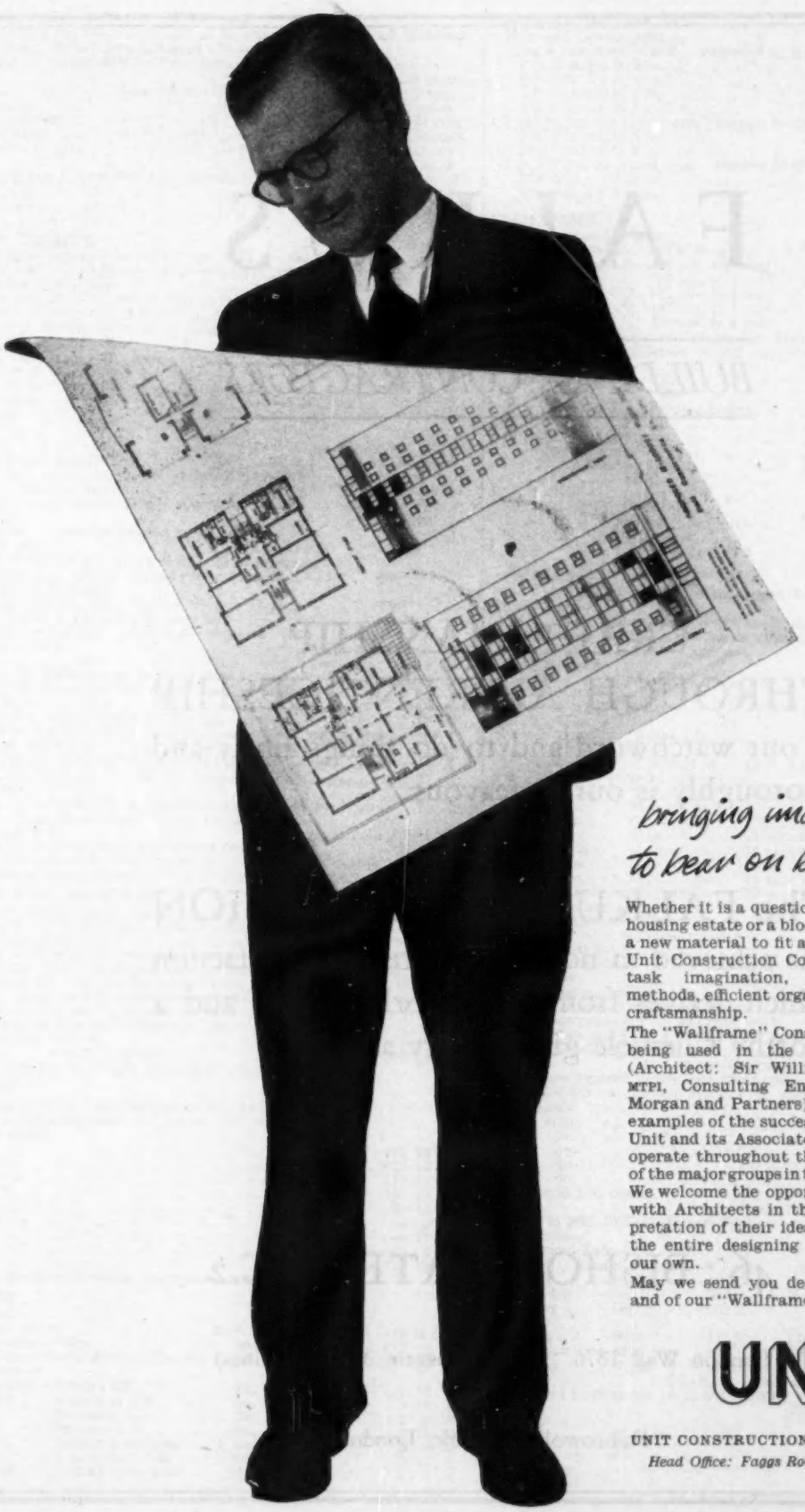
PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

Hollow Clay Partition Blocks (Keyed)				
	Minimum lorry loads			
*2½in.	140 yds.	per yd. sup.	4	5
Building Blocks (Keyed)				
*3 in. (6 cavity)	110 yds.	"	5	5
*4 in. (6 cavity)	90 yds.	"	6	10
6 in. (8¾ in. × 5½ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete				
2 in.	100 yds.	per yd. sup.	3	9
2½ in.	85 yds.	"	4	4
3 in.	75 yds.	"	5	3
4 in.	55 yds.	"	6	5
Cranham Terra Cotta				
2 in.		"	6	9
2½ in.		"	7	5
3 in. Load bearing quality		"	8	9
4 in. do. do.		"	10	9
4½ in. do. do.		"	11	6
Moler Partition Blocks				
2 in.	150 yds.	"	10	6
2½ in.	120 yds.	"	13	0
3 in.	100 yds.	"	14	0
4 in.	90 yds.	"	15	6
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture				
2 in.	100 yds.	per yd. sup.	5	8
2½ in.	80 yds.	"	6	5
3 in.	65 yds.	"	7	5
4 in.	50 yds.	"	9	4
4½ in.	44 yds.	"	10	2
6 in.	33 yds.	"	13	5
Thermalite-Ytong Partition Blocks				
2½ in.	144 yds.	"	7	0
Thermalite-Ytong Load-bearing Insulating Blocks				
3 in.	120 yds.	per yd. sup.	8	5
4 in.	90 yds.	"	11	0
5 in.	72 yds.	"	13	9
6 in.	60 yds.	"	16	6
8½ in.	42 yds.	"	1 3	8
Floor Blocks and Filler Tiles				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.		per 1,000	34	1	0
4 in.		"	36	10	0
5 in.		"	43	15	0
6 in.		"	49	19	0
7 in.		"	61	8	0
8 in.		"	71	19	0
9 in.		"	79	3	0
10 in.		"	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅝ in.		"	42	15	0
12 in. × 4 in. × ⅝ in.		"	73	15	0
10 in. × 5 in. × ⅝ in.		"	73	15	0



bringing imagination to bear on building...

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May we send you details of our services and of our "Wallframe" construction?

UNIT

UNIT CONSTRUCTION COMPANY LIMITED

Head Office: Faggs Road, Feltham, Middlesex

The Builder

CURRENT PRICES OF MATERIALS

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	4	5
Pit Sand	,,	1	2	8
Washed Sand	,,	1	5	9
⅜ in. Shingle	,,	1	3	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,		17	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	5	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	12	0
1 to 6 tons, site	,,	6	4	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	2	6
1 to 6 tons do. site	,,	6	14	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colocrete in 6-ton lots	,,	8	12	0
Other colours according to colour.				
In 4-ton lots from 310s.0d. to 780s.0d. per ton				
White Portland Cement	,,	13	17	6
Under 1 ton	per cwt.		16	11
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	4	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 10s. 0d. to £14 5s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	6	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	14	14	6
Second Hard Stocks	,,	13	8	6
Mild Stocks (Kiln Burnt)	,,	9	10	0
Mild Stocks	,,	9	5	0
All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.				
2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	31	2	6
do. do. (London sites)	,,	30	6	0
do. Bullnose (London stations)	,,	30	16	6
do. do. (London sites)	,,	30	18	0
Blue Wire Cuts (London stations)	,,	26	19	0
do. do. (London sites)	,,	27	0	6
Midhurst Lime Bricks (London sites)	,,	10	15	6
Uxbridge Whites (London sites)	,,	10	2	0
Special Purpose Sandlime Bricks (London sites)	,,	7	18	6
2½ in. Best Stourbridge Fire Bricks (London stations)	,,	30	12	3
2½ in. do. do. (London sites)	,,	31	1	0
3 in. do. do. (London stations)	,,	36	14	9
3 in. do. do. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	29	0	0
2⅜ in. Machine-made Sandfaced Red Facings (London sites)	per 1,000	16	6	6
2⅜ in. Machine-made Multi Red Facings (London sites)	,,	16	11	6
2⅜ in. Hand-made Sandfaced Red Facings (London sites)	,,	16	18	6
2⅜ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	17	8	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	3	6
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	3	6
Rubber Bricks for gauged arches (London sites)	,,	47	11	3
2⅜ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	14	4	0
2⅜ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	0	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

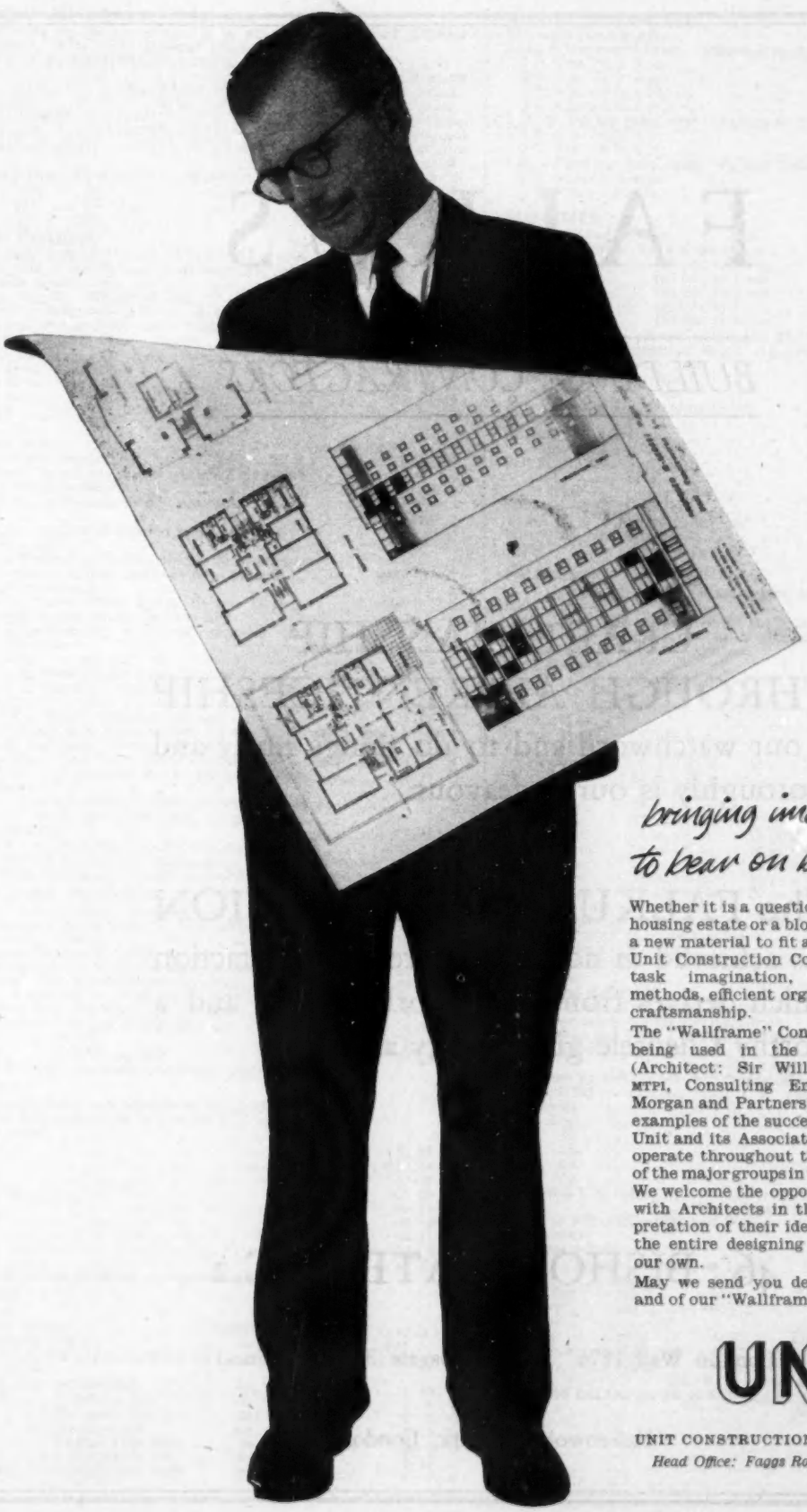
	Minimum lorry loads		£	s.	d.
Hollow Clay Partition Blocks (Keyed)					
*2½in.	140 yds.	per yd. sup.		4	5
Building Blocks (Keyed)					
*3 in. (6 cavity)	110 yds.	,,		5	5
*4 in. (6 cavity)	90 yds.	,,		6	10
6 in. (8¾ in. × 5⅞ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete					
2 in.	100 yds.	per yd. sup.		3	9
2½ in.	85 yds.	,,		4	4
3 in.	75 yds.	,,		5	3
4 in.	55 yds.	,,		6	5
Cranham Terra Cotta					
2 in.		,,		6	9
2½ in.		,,		7	5
3 in. Load bearing quality		,,		8	9
4 in. do. do.		,,		10	9
4½ in. do. do.		,,		11	6
Moler Partition Blocks					
2 in.	150 yds.	,,		10	6
2½ in.	120 yds.	,,		13	0
3 in.	100 yds.	,,		14	0
4 in.	90 yds.	,,		15	6
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture					
2 in.	100 yds.	per yd. sup.		5	8
2½ in.	80 yds.	,,		6	5
3 in.	65 yds.	,,		7	5
4 in.	50 yds.	,,		9	4
4½ in.	44 yds.	,,		10	2
6 in.	33 yds.	,,		13	5
Thermalite-Ytong Partition Blocks					
2½ in.	144 yds.	,,		7	0
Thermalite-Ytong Load-bearing Insulating Blocks					
3 in.	120 yds.	per yd. sup.		8	5
4 in.	90 yds.	,,		11	0
5 in.	72 yds.	,,		13	9
6 in.	60 yds.	,,		16	6
8½ in.	42 yds.	,,	1	3	8

Floor Blocks and Filler Tiles

		£	s.	d.
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	1	0
4 in.	,,	36	10	0
5 in.	,,	43	15	0
6 in.	,,	49	19	0
7 in.	,,	61	8	0
8 in.	,,	71	19	0
9 in.	,,	79	3	0
10 in.	,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅝ in.	,,	42	15	0
12 in. × 4 in. × ⅝ in.	,,	73	15	0
10 in. × 5 in. × ⅝ in.	,,	73	15	0



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FALKUS

BROS. LTD.

BUILDING CONTRACTORS

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STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 50 pieces Under 2 tons	Under 50 pieces Under 2 tons
Best Quality ...	−30%	−5%	List price
BSS Best Quality...	+10% −30%	+10% −5%	+10% list price
Tested Quality ...	+37½% −30%	+37½% −5%	+37½% list price
BSS Tested Quality	+47½% −30%	+47½% −5%	+47½% list price

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	"	15	19	6
6 in. do. do.	"	32	19	0
9 in. do. do.	"	62	9	0

DAMP COURSE

Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup.	do. do.		5	2
Lead lined bitumen do. 9½ lb. per yd. sup.	do. do.		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	"	32	8	2
9 in. × 9 in. do. do.	"	18	18	9
18 in. × 4½ in. do. do.	"	19	19	9
14 in. × 4½ in. do. do.	"	15	18	3
9 in. × 4½ in. do. do.	"	10	14	3

STONE

Bath Stone—				
Monks Park...	per ft. cube		9	7
St. Aldhelm Box Ground	"		10	10
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	"		10	2
Beer Stone. Delivered London area	"		9	0
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	"		9	2
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stooled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	"	1	1	2
12 in. × 3 in. Plain coping, twice throated	"	2	7	6
12 in. × 3 in. Weathered and twice throated coping	"	3	3	3
14 in. × 6 in. do. do. do.	"	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	"	2	11	0
3 in. sawn two sides Slabs, random sizes	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	"	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front ...	"	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.			
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district	62	0	3
Hand-made 10½ × 6½ tiles Berkshire district	15	15	0
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.			
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

Softwood—				
Joinery quality	Ex Wharf	per standard	£110 to £135	
Carcassing quality	do.	"	£92 — £95	
1 in. Tongued and Grooved Flooring	do.	"	£106 0 0	
Hardwood—				
Mahogany—African S.E.	do.	per ft. cube	1 10 0	
do. Honduras S.E. ...	do.	"	3 5 0	
Oak European S.E.... ...	do.	"	2 5 0	
do. Japanese S.E.	do.	"	2 10 0	
do. English Logs sawn ...	do.	"	2 0 0	
Teak 8 in. average S.E. ...	do.	"	3 17 6	
Walnut African Logs sawn ...	do.	"	1 5 0	

DOORS (in Lots I-II)

		£	s.	d.
Delivered London area.				
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	"	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	"	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	"	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	"	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	"	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	"	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	"	2	5	0

SUNDRIES

Delivered London area.				
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	"		8	0
2 in. do. (52 yds. to 1 ton)	"		9	9½
2½ in. do. (45 yds. to 1 ton)	"		11	3
3 in. do. (39 yds. to 1 ton)	"		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
⅛ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
¼ in. Hardboard do.	"	2	0	0
5/16 in. do. do.	"	2	17	6
3/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do.	"		6	0
Roofing Felt 1-ply	"		1	9
do. 2-ply	"		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	"	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	"	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	"	3	12	10

METALS

STEEL JOISTS, ETC.

Basis Joists—				
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in. plain cut to lengths delivered London area	per ton	48	15	6
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	"	3	10	0
3 in. × 3 in.	"	2	10	0
4 in. × 3 in.	"	2	5	0
10 in. × 4½ in.	"	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	"	1	15	0
4¾ in. × 1½ in.	"	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	"		15	0
6 in. × 3 in. 24 in. × 7½ in.	"	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. }	"	1	5	0
12 in. × 5 in. 22 in. × 7 in.	"	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. }	"		10	0
Steel angles average price	"	49	15	6
Steel tees average price	"	50	15	6
Fabricated work delivered London—				
R.S. Joists cut and fitted	"	67	15	0
Compound girders	"	73	2	6
Stanchions	"	78	0	0
Compound stanchions	"	82	17	6
In Roof Work—Trusses and Purlins	"	92	12	6
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
5/16 in. do.	"	6	12	6
⅜ in. do.	"	4	12	6
½ in. do.	"	3	2	6
⅝ in. do.	"	1	10	0
⅞ in. and ⅝ in. diam.	"		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−40½%	−42%	Light −26½%	Malleable List
Medium	−36½%	−38%	Heavy −23%	−20% + 40%
Heavy	−28½%	−30½%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−20%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/-
3½ in.	4/4½	3/11	1/-
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/-
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 22½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts. :	cwt.	qt.	lb.	per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/-
6 in.	2	0	1	51/7	63/9	101/-

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/-	3/3	3/10	5/2
Single Branches	"	4/8	5/6	6/7	9/2
Bends, square or obtuse	"	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj.	"	3/7	4/8	5/2	7/3
do. 6 in. do.	"	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/-	4/9	5/5
Stop ends	"	1/1	1/2	1/3	1/5
Angles	"	3/7	4/1	5/-	5/10
Nozzles	"	3/6	4/-	4/9	5/-
Union Clips	"	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/-	3/3	3/7	5/2
Stop ends	"	1/-	1/1	1/2	1/3	1/5
Angles	"	2/10	3/3	3/7	3/10	5/2
Nozzles	"	2/6	3/-	3/3	3/7	5/2
Union Clips	"	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £	s.	d.
Iron—Staffordshire Crown Merchant Quality	52	17	6
Mild Steel Bars	47	8	0
Mild Steel Hoops	45	7	6

	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	62	7	6
24 gauge	64	17	6
26 gauge	67	17	6
Galvanised Corrugated Sheets, 6 ft. to 9 ft. :			
20 gauge	69	3	0
24 gauge	72	13	0
26 gauge	77	18	0
Galvanised Flat Sheets C.R. and C.A. :			
20 gauge	70	13	0
24 gauge	74	3	0
26 gauge	79	8	0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£	s.	d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.		2	10½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	"		2	8
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	"		2	9½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	"		2	9½
Coiled strip for flashing, 99·7% purity, 22 SWG (12 in wide)	"		3	0
Corrugated sheet BS 1470 NS3 Utility Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	12	0
Corrugated sheet BS 1470 NS3 Utility Industrial Profile 8 ft. × 31½ in. × 20 SWG	"	1	17	6
Corrugated sheet BS 1470 NS3 Utility Mansard Profile 8 ft. × 31½ in. × 20 SWG	"	1	11	2
Extruded section BS 1476 E1C simple moulding	per lb.		2	8½
Extruded section BS 1476 E1C 1 in. diam. round	"		2	6
Extruded section BS 1476 HE1WP simple angle	"		2	11½
Extruded section BS 1476 HE10WP 1 in. diam. round	"		2	10½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG	"		4	4½
Tubing BS 1471 HT10WP 1½ in. O/D × SWG	"		5	9

PLUMBERS BRASS WORK

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/-	128/-	—	—	—	—
Toilet bib cocks for iron	109/-	158/5	—	—	—	—
Screwdown stop cocks for iron	66/-	95/9	188/-	363/-	522/6	917/6
do. with two unions for lead	89/-	132/-	234/4	472/-	623/6	1,389/6
Double nut boiler screws	18/8	26/5	47/6	48/6	67/-	93/6
Heavy Croydon ball valves	77/-	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/-
	1½ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/-	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1½ × 6 lb.	1½ × 6 lb.		2 × 7 lb.		3 × 7 lb.
Lead P. trap with brass cleaning screws	62/6	78/-		124/9		213/3
Lead S. trap do. do.	75/6	93/6		153/6		275/6

Solder :			s.	d.
Plumbers'	1 cwt. lots	312/-	14 lb. lots per lb.	3	5
Tinmen's	" "	394/-	" " "	4	0
Blow pipe	" "	397/-	" " "	4	2

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 27¾d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge	15½	Total per lb.	43½	Approx. per ft.	11½
¼ in. × 19 "	13¾	" "	41¼	" "	16
1 in. × 18 "	12¼	" "	40	" "	24¾
1¼ in. × 18 "	11⅝	" "	3[illegible]	" "	30
1½ in. × 18 "	11⅝	" "	3[illegible]	" "	35¾
2 in. × 17 "	13¼	" "	41	" "	57½

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	" 1d. "
2 cwts. to 1 cwt.	" 2d. "

	£	s.	d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	265	15	0

Zinc

		£	s.	d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7	3	9
" " 12 gauge (23 SWG), " " "	"	7	1	3
" " 14 gauge (21 SWG), " " "	"	7	0	0

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.		1	10½

LEAD SHEET & PIPES

Basis selling price in minimum 1-ton delivery to one address in London or Home Counties :

		£	s.	d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	106	0	0
" Water Pipe, in coils	"	108	5	0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. dia.	"	109	15	0
" " " over 4 in. dia.	"	111	15	0
" Gas or Untinned Compo pipe	"	109	15	0
Extras over Basis for quantities under 1 ton :				
5 cwt. and under 1 ton	per cwt.		2	0
3 cwt. do. 5 cwt.	"		4	0
1 cwt. do. 3 cwt.	"		6	0

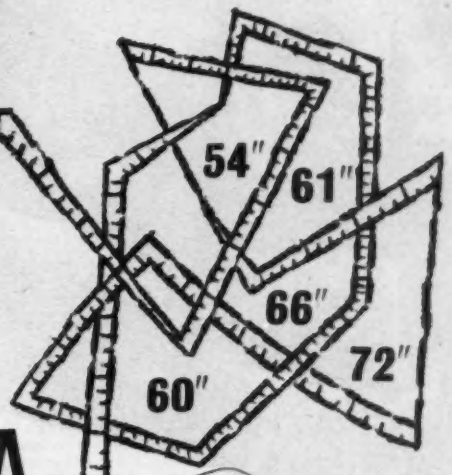
Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £60 0s. 0d. per ton weighed at buyer's works.

PLASTER

		£	s.	d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8	4	6
do. White do. do. do.	"	8	14	0
Sirapite Coarse BSS 1191 Class C do.	"	8	15	9
do. Fine do. do. do.	"	9	3	3
do. Browning BSS 1191 Class B do.	"	8	15	9
do. Board Finish do. do.	"	8	15	9
Blue Lias Lime, in 6-ton loads	"	6	14	6
Hydrated Lime (Grey), in 6-ton loads	"	5	5	0
do. (White) do.	"	6	0	0
Lump Lime (Grey) do.	"	5	7	0
do. (White) do.	"	5	14	6
White Keen's or Parian Cement, in 1-ton loads	"	11	14	6
Pink Keen's or Parian Cment, in 1-ton loads	"	11	19	3
Granite Chips, in 6-ton loads	"	2	8	6
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.		2	5
1,200 yds.	"		2	4
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"		3	0
1,200 yds.	"		2	11½
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"		2	8
1,200 yds.	"		2	7
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"		3	3
1,200 yds.	"		3	2½



Measure up then modernise

The Bilston ATLANTA

fits any bathroom

ATLANTA SPECIAL FEATURES

Flat bottom

the Atlanta flat bottom helps to prevent slipping . . . ensures comfort. Particularly suitable where a shower is to be fitted.

Safety

the low sides make the Atlanta safer for young and old. It can be fitted to give an overall height of only 16".

Taps

can be fitted centrally, or on either corner to facilitate installation and maintenance.

Fittings

the Atlanta is supplied with or without overflow . . . with or without hand grip. The feet can be adjusted to accommodate all types of trap, including the Bilston "Wasteflo" prefabricated waste, trap and overflow unit.

Also available with the Bilston O.P. Hand Grip specially designed to meet the needs of the elderly or infirm.

Colours

the Bilston range includes white, or the exact colour required for any decorative scheme.

Bathroom modernisation is now simplified. Whatever the room measurement, there's a Bilston Atlanta to fit. Made in five sizes, the Atlanta has the superior Bilston finish and durability, plus design features that make it particularly safe and comfortable. The Atlanta has been selected for the Design Centre and costs no more than an ordinary bath.

A BILSTON BATH

• Atlanta • Marina
• Magna • Mermaid
• Cresta • Bermuda

WE HAVE AN EXHIBIT AT THE BUILDING CENTRE 26 STORE STREET WC1

BILSTON—the bath *SPECIALISTS*

Bilston Foundries Ltd., Bilston, Staffordshire. Illustrated literature is available on request.

MAHOGANY

Today's best value in first-class Joinery Hardwood

A complex set of circumstances, involving many world-wide elements of trading in timber, has brought genuine Mahogany from West Africa down to its lowest price level for many years.

We can supply a complete range of sizes, from 1″ to 5″ thick, all top quality F.A.S. grade to cover all normal and many unusual joinery needs

at between 18/- and 27/- per cubic foot

And this is genuine mahogany, not a red-coloured unstable substitute that just looks like it.

We hold large stocks of dry square edged mahogany, stored under cover and ready for immediate selection to your needs.

Photos by courtesy of The United Africa Co. Ltd.

M·A·MORRIS·LTD

RAVENSDALE WHARF · STAMFORD HILL · LONDON · N.16 · TEL. STAMFORD HILL 6611 (6 lines)

PAINTS AND DISTEMPER

Delivered London area.

		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	5	0
Gloss Paint	per gal.	2	12	0
Super Snowcem cement paint (in 1 cwt. drums)	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	15	0
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		16	9
Boiled Linseed Oil (5 gal.) do.	,,		17	4
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	0
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.

Oak Varnish, Outside or Inside	per gal.	2	0	0
Oak Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	6	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	18	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	17	0
Knotting (1 gal. bottles free)	,,	2	8	0
French and Brush Polish (do.)	,,	2	2	0

GLASS

Delivered London area.

		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality—Cut Sizes	per ft. sup.		9
24 oz. do. do. do. do.	,,		10¾
26 oz. do. do. do. do.	,,	1	1½
32 oz. do. do. do. do.	,,	1	5½
⅛ in. Rolled Plate	,,	1	1½
3/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5¾
⅛ in. Figured Rolled and Cathedral, Standard patterns—		s.	d.
White Group 1	per ft. sup	1	1½
do. Group 2	,,	1	4¾
do. Standard Tints	,,	1	10
do. Special Tints	,,	6	8
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	6
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 5¾ × 5¾ × 3⅞ in.	each	3	3
P.B.3 7¾ × 7¾ × 3⅞ in.	,,	5	0
P.B.32 7¾ × 7¾ × 3⅞ in.	,,	5	0
Radiused Corner Blocks to match up with—			
P.B.2	,,	6	0
P.B.3	,,	7	6
P.B.32	,,	7	6
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	3
,, ,, ,, 5 ft. sup.	,,	5	3
,, ,, ,, 45 ft. sup.	,,	6	3
,, ,, ,, 100 ft. sup.	,,	6	9
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways	,,	10	0
Not exceeding 180 ft. sup. or do.	,,	13	4

Plates exceeding 180 ft. sup. prices on application.

Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,,	2,000		8½
26 oz. ,, ,,	2,000		10¾
32 oz. ,, ,,	2,000	1	1¾
⅛ in. Rolled Plate	1,000		9½
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		9½
do. Group 2	1,000	1	0½
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	1½
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1¾
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

The Builder

CURRENT RATES OF WAGES

AS FROM FEBRUARY 2, 1959. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/9	4/8½
Labourers	4/2½	4/2

Town	Grade
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A1
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A1
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A1
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A1
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A1
Bridgnorth MB	A1
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A1
Caernarvonshire, Cnty. of	‡A1
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

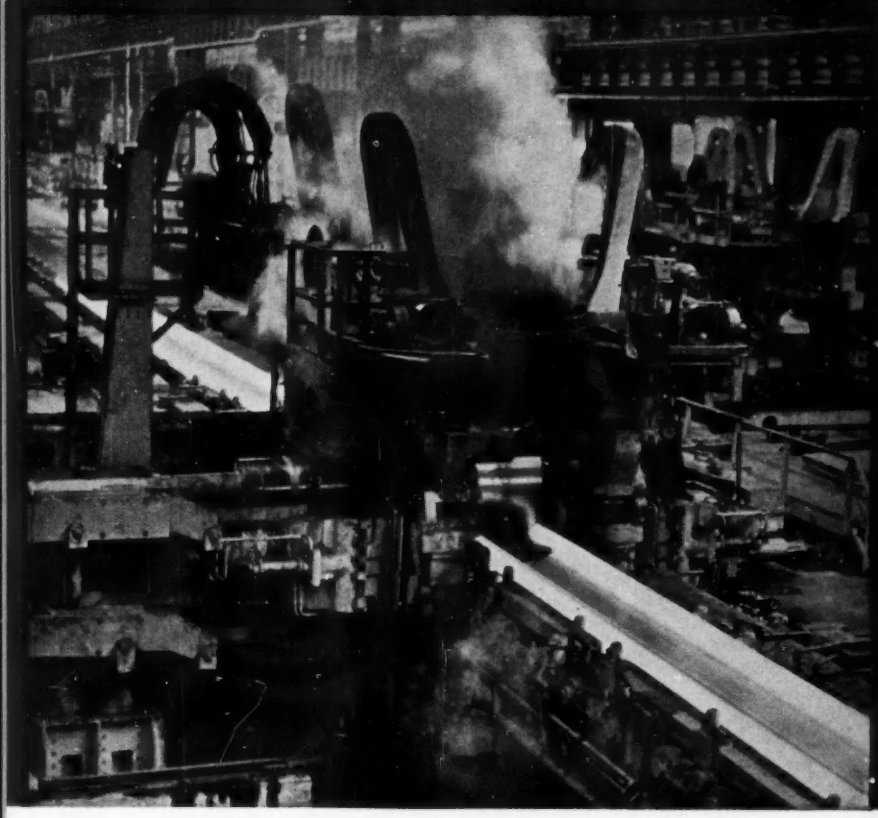
Town	Grade
Carlton UD	A
Carmarthen—Borough of	A1
Carmarthenshire, Cnty. of	‡A1
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A1
Deal	A1
Denbigh Town	A1
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD (part—Airmyn, Hook)	A
Gosport	A
Grantham MB	A
Gravesend	A
Grays Thurrock UD Area	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A1
Llangollen	A1
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A1
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A1
Monmouthshire	A1
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A1
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire (except Milford Haven)	A1
Penmaenmawr	A1
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A1
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A1
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull UD	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC Area	A
North of to Billericay	A
Tilbury	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland (except Kendal)	A1
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A1
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A1
Wisbech	A1
Witham	A1
Withernsea UD	A1
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are:— Craftsmen 4s. 10½d. ; Labourers. 4s. 4d. In the case of London the rate beyond the 12-mile radius is: Craftsmen. 4s. 10d. ; Labourers, 4s. 3½d. † Plus 2d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops, receive 2d. per day ; when employed on other building industry work, 4d. per day

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s 10½d. per hour Women engaged on work other than craft processes, 3s. 6½d. per hour.

For Building Trade Wages in Scotland, see page 832



'UNIVERSAL' BEAMS

IN MANUFACTURE AND IN USE

Here is a 36″ x 16½″ 'Universal' beam passing through the finishing rolls of our Universal Beam mill at Lackenby.

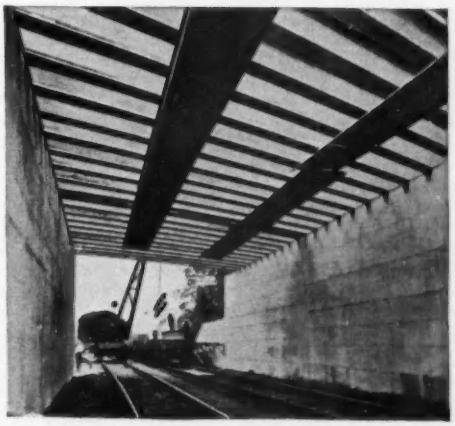
It is the largest of our new range of sections — all carefully proportioned in the light of structural experience to simplify design and fabrication of steel structures.

The mill has important features which considerably augment its productivity and service to the industry: one is its construction with alternative sub-assemblies having rolls and bearings already mounted in interchangeable stands, thereby facilitating rapid changes. Another feature is the mill arrangement by which a beam or column section can be rolled in different 'weights' to suit different loads—yet without substantially affecting the overall dimensions.

The photograph of the Catterick bridge (shown at right), by courtesy of R. Sawtell Esq., A.M.I.C.E., County Surveyor, North Riding, Yorkshire C.C.

Above in red, the new 36″ x 16½″ beam (shown in the rolling mill picture); in blue, the largest of the British Standard sections, 24″ x 7½″.

A bridge at Catterick (shown below) recently built by Tees Side Bridge & Engineering Works Ltd., with spans of the new 24″ x 12″ Universal beams (shown in yellow) without plating.



EARLY DELIVERY OF THE FULL RANGE OF SECTIONS

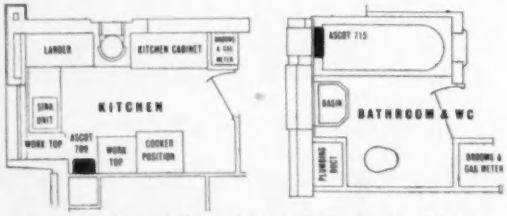
DORMAN LONG

Caroline Estate extension, Hammersmith

ASCOT IN NEW HOUSING (9)

Ascot instantaneous Gas Water heaters have been extensively used for providing hot water in dwellings comprising the London County Council's new Caroline Estate extension at Hammersmith, photographed above. In the eight-storey block, Joanna House, Ascot multipoints have been installed in the 30 three-room and two two-room flats. In the ten-storey block, Henrietta House, Ascot 715 'balanced flue' multipoints are provided in 20 three-room and 18 two-room flats. For technical reasons, an alternative water heating system was necessary in two two-room flats on the ground floor of this block.

In all other maisonettes and flats on the Estate, back boilers have been provided for hot water, except in six maisonettes. Here, Ascot 715 multipoints are installed to obviate difficulties which would have otherwise resulted from having flues for solid fuel fires situated near the ten-storey block.



Two typical installations of Ascot Multipoints in a kitchen and a bathroom in flats on the Estate.

RESPONSIBLE AUTHORITY

London County Council
Architects: Edward Armstrong & Frederick MacManus, F.R.I.B.A., Chartered Architects,
28, Gloucester Place, London, W.1

REGD. TRADE MARK
ASCOT

ASCOT GAS WATER HEATERS LTD · 255 NORTH CIRCULAR ROAD · LONDON · N.W.10

WHG.A379

FACTORY AT KITT GREEN

Sub-contractors and Suppliers

THIS list contains the names of the principal sub-contractors and suppliers, nominated or otherwise, for the factory at Kitt Green, Lancashire, for H. J. Heinz Co., Ltd. The factory is illustrated on pages 808 to 814 of this issue.

Piling, Frankipile Co., Ltd.; *drainage goods* Warrington Slate Co., Ltd.; *limestone aggregates*, Richard Briggs & Sons, Ltd.; *concrete plasticisers and waterproofers*, Chemical Building Products, Ltd.; *Mersey sand*, William Cooper & Sons, Ltd.; *expansion jointing materials*, Expandite, Ltd.; *gravel aggregates*, Hulland Gravel Co., Ltd.; *cement*, Ribblesdale Cement, Ltd.; *pre-cast concrete floors*, Pierhead, Ltd.; *facing bricks*, The Accrington Brick Co.; *facing bricks*, Lathom Brick Co., Ltd.; *glazed block partitions*, Leeds Fireclay, Ltd.; *building blocks*, Lignacite (North Eastern), Ltd.; *sandlime bricks*, M. McCarthy & Sons, Ltd.; *black coping stones*, Shaws Glazed Brick Co.; *lightweight building blocks*, Thermalite, Ltd.; *waterproof membrane within production building and ESB suspended floors*, Neuchatel Anticorrosion Co., Ltd.; *tanking and SIB roofing*, Neuchatel Asphalte Co., Ltd.; *construction of waterproof brick pavior floors*, Acalor, Ltd.; *supply of brick paviors*, Accrington Brick Co.; *pvc floors in quality control department*, British Dolomont, Ltd.; *hardwood floors and 'Semastic' floors in ESB*, Horsley Smith & Co. (Hayes), Ltd.; *linoleum floors in ESB*, Korkoid Decorative Floors; *linoleum floors generally*, Semtex, Ltd.; *warehouse canopy glazing*, Corroglaze, Ltd.; *waterproofed metal deck roofing*, Robertson Thain, Ltd.; *felt roofing in ESB*, Val de Travers Asphalte Paving Co., Ltd.; *external louvred panels*, Colt Ventilation, Ltd.; *wall cladding to ESB plant room*, W. H. Heywood, Ltd.; *curtain wall to production building*, Holoplast, Ltd.; *curtain wall cleaning cradle*, Palmers Travelling Cradle & Scaffold Co.; *vertical patent glazing to can factory and cooling water plant*, Williams & Williams, Ltd.; *steel partitions generally*, Roneo, Ltd.; *'Holoplast' partitions*, Holoplast, Ltd.; *wc partitions*, Wm. Mallinson & Sons, Ltd.; *wc partitions production building*, Venesta, Ltd.; *plywood for concrete shuttering*, J. Holt & Son (Plywood), Ltd.; *joinery in ESB*, Walter Lawrence, Ltd.; *laboratory equipment*, W. E. Marson & Co.; *timber for concrete shuttering*, David Roberts, Sons & Co. (Bootle), Ltd.; *general joinery, doors, etc.*, Super Wood Products, Ltd.; *tea kiosks*, Tyson (Contractors), Ltd.; *ESB eaves trim and canteen louvre frames*, Aluminium Alloy Fabrications, Ltd.; *sliding doors, ESB*, Bolton Gate Co.; *staircase and special sheet metal work*, Frederick Braby & Co.; *metal shelving, quality control department*, Constructors, Ltd.; *metal shelving, miscellaneous*, Beanstalk Shelving, Ltd.; *ESB staff entrance, glazed screen and special grilles*, Culford Art Metal; *duct covers*, Dover Engineering Works, Ltd.; *lightning conductors*, W. J. Furse & Co.; *wire lockers*, G. A. Harvey & Co., Ltd.; *sliding door gear*, E. Hill Aldam; *'Rigifix' column guards, warehouse*, Huntley & Sparks, Ltd.; *internal guard rails*, Light Steelwork (1925), Ltd.; *fire doors*, Mather & Platt, Ltd.; *hoist blocks*, Herbert Morris, Ltd.; *ironmongery and door furniture*, Quiggin Bros.; *fixing devices*, The Rawlplug Co., Ltd.; *strong room door*, Ratner Safe Co., Ltd.; *column guards in production area, external guard rails, miscellaneous steelwork*, Staveleys, Ltd.; *fabric reinforcement*, GKN Reinforcements, Ltd.; *all structural steelwork*, Peirson & Co., Ltd.; *reinforcement steel*, Whitehead Iron & Steel Co., Ltd.; *tubular scaffolding*, Mills Scaffold Co., Ltd.; *special windows*, Luxfer, Ltd.; *metal windows*, Williams & Williams, Ltd.; *upper production floor ceiling*, Anderson Construction Co., Ltd.; *ceiling suspension in production building*, Campbell Denis, Ltd.; *pre-cast plaster ceiling in ESB*, Clark & Fenn, Ltd.; *pre-cast plaster ceiling in production building*, Petradene, Ltd.; *ceiling suspension in ESB*, Steel Bracketing & Lathing Co., Ltd.; *hardboard ceilings*, Tentest Fibre Board Co., Ltd.; *plastering materials*, Warrington Slate Co., Ltd.; *ESB marble wall facings, terrazzo floors and staircases*, Art Pavements & Decorations, Ltd.; *floor tiling, ESB*, Carter & Co., Ltd.; *glazed wall tiling*, W. B. Simpson & Co., Ltd.; *sanitary fittings*, Wm. E. Farrer, Ltd.; *plumbing and glazing materials*, Samuel Greatrix, Ltd.; *pitch fibre drainpipes*, The Key Engineering Co., Ltd.; *cast iron pipes*, Staveley Iron & Chemical Co., Ltd.; *incinerators*, Sugg & Co., Ltd.; *mechanical and ventilating engineers*, Z. D. Berry & Sons, Ltd.; *refrigerator plant*, J. & E. Hall; *lagging*, Kitson Insulation, Ltd.; *ductwork in production building*, Joseph Nadin, Ltd.; *cold store and cool room insulation*, Smith Insulations, Ltd.; *ductwork in ESB, kitchen and production area hoods*, Henry Hargreaves & Co., Ltd.; *water chlorination plant*, Wallace & Tiernan, Ltd.; *external pipe services*, G. N. Haden & Sons; *electrical engineers*, Barlow & Young, Ltd.; *electrical switch gear*, Brush Electrical Engineering Co., Ltd.; *electrical control gear*, Watford Electric & Manufacturing Co., Ltd.; *special light fittings*, Crossland, Ltd.; *special light fittings*, Allan Heffer; *light fittings*, Britannia Engineering Co., Ltd.; *tungsten and modular fluorescent fittings in ESB*, Frederick Thomas, Ltd.; *steriliser units*, Sparkhall Steriliser Co., Ltd.; *boiler installation*, Babcock & Wilcox, Ltd.; *boiler instruments*, Bailey Meters & Controls, Ltd.; *boiler distribution pipework*, Cappers, Ltd.; *boiler feed pumps*, Mather & Platt, Ltd.; *oil tanks and oil pumps*, Matthew Hall, Ltd.; *water treatment*, Permutit Co., Ltd.; *kitchen equipment*, Falkirk Iron Co., Ltd.; *cold stores in ESB*, Prestcold Refrigeration, Ltd.; *light goods lift*, London Lift Co.; *heavy goods lift*, Otis Elevator Co.; *internal tube communication*, Lamson Engineering Co., Ltd.; *telephones, loudspeakers, clocks, etc.*, Sieman, Edison Swan; *water cooling plant*, Guest & Chrimes; *effluent disposal equipment*, Lea Recorder Co., Ltd.; *water treatment*, Permutit Co., Ltd.; *water cooling plant*, Visco Engineering Co., Ltd.; *trade effluent screens*, Longwood Engineering Co.; *conveyors and hoppers*, Frederick Braby & Co.; *comminutor*, Jones & Ackwood; *mechanical equipment, water cooling plant*, Worthington Simpson; *external signs*, The Franco-British Electrical Co., Ltd.; *internal signs*, Drakard & Humble, Ltd.; *sprayed 'Tretoplast' application to ceilings*, Export Packing Services, Ltd.; *painting and decorating*, G. A. Fryer & Son (Warrington), Ltd.; *fair faced concrete treatment*, Gunac; *paint supplier*, Screeton Paintmaker, Ltd.; *'Tretoplast' manufacturers*, Tretol, Ltd.; *establishment of sports field*, Bees, Ltd.; *landscaping*, Clapham's Nurseries, Ltd.; *security fencing*, Peerless Fencing & Products, Ltd.; *weighbridge equipment*, Henry Pooley & Sons.

LCC

Lyceum Theatre Site

AT the meeting of the London County Council on April 21, MR. F. LAWRENCE asked the chairman of the Town Planning Committee if the Council had any plans in view for road improvement or development on the land at present occupied by the Lyceum Theatre, Westminster, and was the land owned by the Council?

In reply, MR. R. EDMONDS said that the answer to both questions was 'Yes.' The Lyceum Theatre had been bought by the Council in 1939 for the Strand-Wellington-street improvement. The scheme had to remain in abeyance owing to the war, but it was programmed to commence within the first 12 years of the draft programme approved by the Town Planning Committee for submission to the Nugent Committee on London Roads.

MR. R. VIGARS asked the chairman of the Town Planning Committee if planning permission had been granted for the erection of the building of which the Columbia Cinema, Shaftesbury-avenue, Westminster, formed part, and if so, was a condition imposed requiring the provision of car-parking accommodation and if that were the case what were the terms of the condition? Also, was it a fact that no parking accommodation was available to patrons of the Cinema, and would he arrange for this matter to be brought before the Town Planning Committee as soon as possible in order that they might consider what action, if any, could be taken in this case and in similar cases in the future?

MR. EDMONDS, in his reply, said planning permission had been granted for this building. The plans submitted provided for car-parking accommodation on the first floor. This accommodation had in fact been provided as part of the building, although it appeared that it was not at present in use. It was made a condition of the permission given on October 18, 1956, that this car park should be used solely for the accommodation of occupiers and users of the building and for no other purpose except with the prior consent of the Council. He was given to understand that no parking accommodation was available to patrons of the cinema. The matter was to come before the Town Planning Committee.

Car Parks in City

MR. VIGARS also asked the chairman of the Town Planning Committee if any applications for planning permission to erect multi-storey car parks in the City of London had been refused, or recommended for refusal, recently. If so, on what grounds, and did the chairman consider such action helpful in relation to London's traffic problems?

In reply MR. EDMONDS said four applications, giving a total of approximately 1,740 car places, had been approved. One, for a site between Upper Thames-street and the River, for approximately 500 cars, had been refused because the exclusive use of this site for car parking was considered to make less of the site than its waterside position merited. Furthermore, the type of building proposed was likely to have an unsatisfactory appearance from the River and to prejudice proper redevelopment of the riverside. The City Corporation was, however, informed that in any use of the site for a car park, cars should be kept under a podium, the roof of which could be used as a riverside terrace for public use.

The Council's action should be most helpful in getting car parking provision.

MR. D. TUTAEV asked the chairman of the Town Planning Committee what action, if any, had been taken with regard to the disused bus station at the foot of Putney High-street, Wandsworth and what plans were envisaged for rebuilding in this area should it be cleared. Also had public access to the River Thames been provided for in any such plans and, if so, would he arrange for further consideration to be given to the possibility of providing a public walk between Wandsworth Park and the old Ranelagh polo ground? Would he also give some assurance that the grounds of the Parish Church of St. Mary's were left intact, and that the church's religious and architectural significance would receive proper consideration in any plans which are drawn up?

MR. EDMONDS replied that no action had been taken by the Council. A town planning application had been received from a prospective purchaser for the redevelopment of the site by the erection of a 15-storey office block. This had not yet been considered by his Committee.

The application referred to provided for public access to the river at a point where it would clearly be welcome. This would necessarily be a long-term objective which the appropriate Committees would bear in mind when the opportunities for redevelopment arose. On the final point the answer was 'Yes.'

OVERSEAS BUILDING

From Our Own Correspondents

FORMOSA. — A large lumber project financed by the Taiwan Provincial Government and US Aid, will include the building of a processing mill in the Tansheshen forest area. . . . The largest air base in the Far East is to be built at Taichung in Central Formosa. With a 12,000 ft. runway and covering 2,300 acres the airfield will cost US $25m. . . . A Development Loan Fund agreement has been signed for a loan of US $21.5m. in addition to US $8m. supplied from ICA funds to complete the first phase of the Shihmen Dam project. The dam will be 16 miles long. . . . The Provincial Highway Bureau has revealed that the Provincial Government is planning to invite private investors to build a new motorway between Taipei and Keelung.

INDONESIA.—The Shell Company have announced that they have decided to proceed with the construction of a 260-km.-long pipeline leading from their Tandjung field in South Borneo to their refinery at Balikpapan. This will involve an additional expenditure of £18m. . . . The United States Development Loan Fund announced the granting of a US$6m. loan for the rehabilitation of harbours used both in inter-island and international trade. . . . Representatives of the Indonesian and Soviet governments signed a protocol on the implementation of development projects in Indonesia under the framework of the US$100m. Soviet credit to Indonesia. The Prime Minister said that agreement had been reached on the building of two iron and steel plants, the construction of a fertiliser plant, motor highways and mechanised land reclamation projects. . . . The Japanese are to co-operate with the Indonesian government in the construction of a dam at Asahan, in North Sumatra. . . . Documents were signed between Indonesia and Poland for a number of development projects including the construction of four shipyards in the Moluccas, South Celebes, East Java and Central Sumatra. Roads are to be constructed between Banjarmasin-Balikpapan-Muara and Balikpapan-Samarinda.

IRAQ.—The Ministry of Interior of Iraq is considering a £13m. constructional programme drawn up by the Mutasarrif of Baghdad. Under the plan five new hospitals will be built at Karradat Mariam, New Baghdad, Achamiyah, Khadhimain and Abu Ghraib. Another hospital with 50 beds for emergency cases is also to be erected. The plan also provides for a similar emergency hospital to be built in Karradat Mariam and for vocational schools to be built in various parts of Baghdad. . . . The Directorate General of Railways have decided to construct a railway line for the transport of limestone from Shithatha to Kerbala. It will cost £5m. It has also been announced that a new railway station will be built in Baghdad for the terminus of the Erbil/Kirkuk/Baghdad railway. . . . The Directorate of Roads have requested allocation of £8m. under the forthcoming seven-year development programme for the construction of the road between Rutba and the Syrian frontier and between R. madi, Ana and Al Qaim.

The SCOTTISH BUILDER

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	52 3
2nd	33⅓	69 8
3rd	50	104 6
4th	66⅔	139 4
5th	75	156 9

For female labour, the rates are:

	s. d.
Operatives on craft operations (at end of probationary period)	4 2½
Operatives on labouring operations (at end of probationary period)	3 8½

Edinburgh Architectural Association

OFFICE-BEARERS of the Edinburgh Architectural Association elected at the annual general meeting recently were: President elect Mr. G. H. Lawrence; past-president Mr. J. A. M. Mottram; vice-presidents Messrs. R. Cowan, P. S. Ferguson and A. Reiach.

NEW BUILDINGS

Aberdeen.—Plans in hand for new bridge over Deeside railway line at Auchinyell. Est. cost £70,000.

Dundee.—Oil depot and tanker jetty at West Esplanade for Scottish Oils and Shell Mex Ltd. Est. cost £325,000.

Grangemouth.—Town development scheme for 700 houses for overspill from Glasgow approved by Secretary of State for Scotland.

Inverness.—Dean of Guild Court approved plans for jun. sec. sch. at Diriebught. Est. £133,898.

Inverness.—Dean of Guild Court approved plans for 88 terraced-type houses at Lochardil. Est. £165,000.

Lanark CC.—Outfall sewers Kirkintilloch-rd., Bishopbriggs—860 yds. 24in. and 30in. r.c. pipes in open cast and 70yds. in tunnel, with 10 manholes; effluent sewer at Bishopbriggs—840yds. 42in. r.c. pipes in open cast and 90yds. in tunnel under Forth and Clyde Canal, with 10 manholes; sewer at Lanark-rd., Carluke.—530yds. 18in. and 21in. r.c. pipes and 40yds. 12in. f.c. pipes in open cast and 9 manholes; sewer at Newmains—790yds 18in, 21in and 30in r.c. pipes and 350yds. 12 and 15in. f.c. pipes in open cast and 13 manholes. Applications to Mr. J. B. Murray, County E. 23 Clydesdale-st., Hamilton.

Moray and Nairn.—EC approved school building programme for next five years. This includes new primary schools at Lossiemouth (£95,000), St. Andrews-Llanbryde (£49,000) and Forres, and extensions to Elgin and Nairn academies.

Paisley.—Plans approved in principle for three blocks of flats 20 storeys high at Glen-st.

Perth and Kinross Joint CC.—Additional accommodation (about 22,600 sq. ft.) and alterations to Auchterarder jun. sec. sch.

Port Glasgow.—Factory to be built on industrial estate for British subsidiary of American company, Playtex Ltd.

Westburn.—Dean of Guild Court approved alterations and extensions to existing office building of Westburn sugar refinery at Lynedoch-st. Est. cost £30,000.

NEWS IN BRIEF

Safety Contest

FIVE of the first 26 firms supporting a nationwide contest in search of safety ideas and inventions are connected with the building industry. Known as the British Safety Contest, it was announced recently in the House of Commons by Mr. Richard Reader Harris, Conservative MP for Heston and Isleworth, and chairman of the governing Trust. The object of the contest is to encourage the man and woman in the street to take an active part in the national campaign against accidents. The five participating firms are Holland & Hannen and Cubitts Ltd.; George Wimpey & Co., Ltd.; Cape Asbestos Co., Ltd.; Constructors John Brown Ltd., and Associated Portland Cement Manufacturers Ltd. The Institute of Patentees and Inventors is collating the entries for the contest. A panel of judges will be announced at a later date.

Perforated Bricks

The manufacturers of an earlier design of horizontally perforated brick were the Western Counties Brick Company, 31 Queen-street, Exeter, and not as stated in our issue of April 17 when the Aylesbury experiment in a new type of hollow clay brick was described.

Birmingham Overspill

The three Forest of Dean local authorities —West Dean, East Dean and Lydney Rural District Councils—have all agreed in principle to take overspill population from Birmingham in the hope that industry will also move and thus help alleviate the worsening unemployment situation.

Fly Ash as Bulk Fill

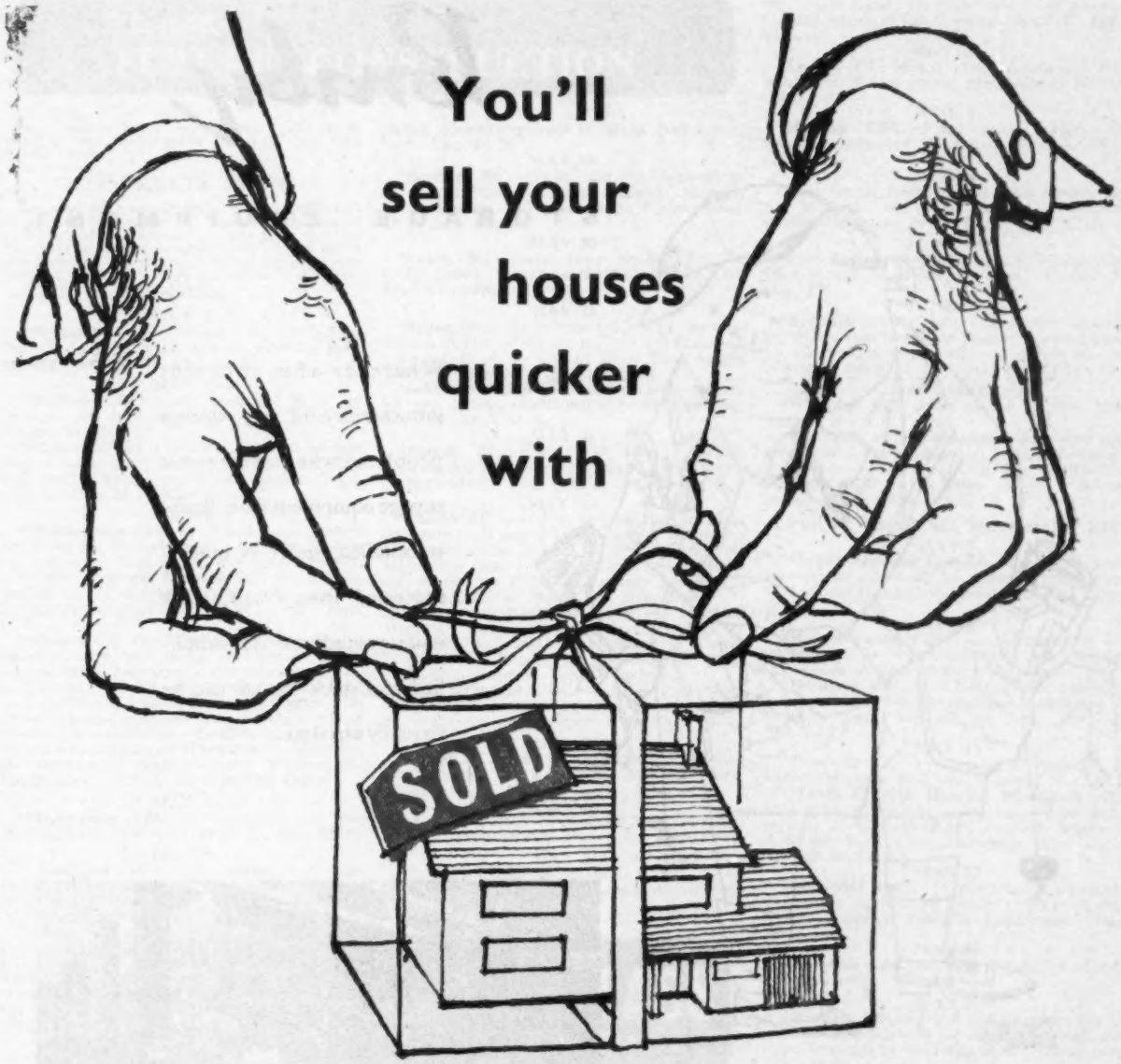
A report on 'Fly Ash as Bulk Fill,' which records experimental work at Willington, Bedford, undertaken last year, with an addendum on actual use in April, 1959 (by Sydney Green & Co., Ltd.), on the A.1 trunk road improvement scheme at Wyboston, Beds., has been issued by the Fly Ash Division of Stephenson Clarke Ltd., 28-30 Dudley-road, Whalley Grange, Manchester.

Acoustic Ceiling to AEI Canteen

We are informed that the ceiling to the canteen in the AEI Building, Grosvenor-gardens, illustrated in *The Builder* of April 17 (page 736) in the article on 'Heat and Sound,' was a perforated monolithic plaster acoustic undulated ceiling, to which a thin polythene film has been stuck to the back of the plaster to seal the perforations, with 'Bondacoust' laid to the back of this, and not as stated. This ceiling was specially designed, manufactured and fixed by the acoustic division of Clark & Fenn Ltd., 16 Old Town, London, SW4, to meet the requirements of the architects, Messrs. Wimperis, Simpson & Fyffe.

Management Conference

The Cementation Group of Companies, 20 Albert Embankment, London SE11, is shortly to hold its first Group Management Conference in London and the provinces. A total of 100 senior executives from twelve countries, including Britain, will take part. The conference will be held from May 4-15, and its theme will be 'The Role of Management in an Expanding Group.'



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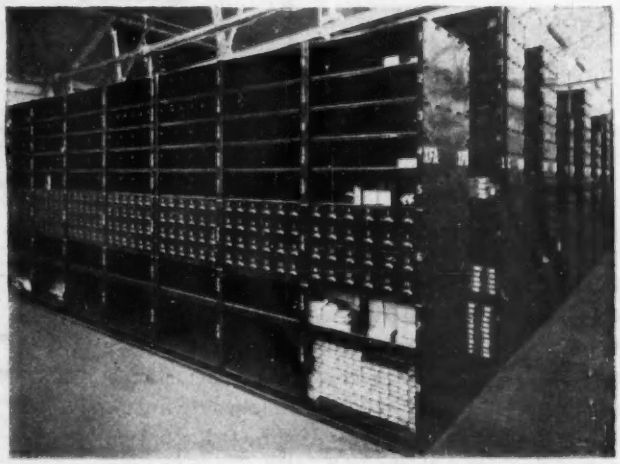

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The Builder

FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

BUILDING

MAY 1

***†Wednesfield UDC.**—Four shops with four flats over and nine garages at Ashmore Park housing estate. E&S. Dep. £2 2s.

MAY 4

***†Halifax CBC.**—New teaching block at Ovenden sec. mod. sch. Boro' E. Dep. £2. Tenders by May 25.

***†Plymouth City C.**—(a) Installation of new oil-fired boiler plant, and (b) erection of a 45ft. high brick chimney at Wolseley home, Ford. City A. Dep. £3 3s. each contract.

MAY 6

***†Birmingham City C.**—Fixed price tenders for 36 flats at Bordesley Green East (nr. Stuarts-rd.). City A. Dep. £2 2s. Tenders by June 5.

***†Leeds Regional Hospital Bd.**—Fixed price tenders for alterations to boiler house, etc., at St. John's Hospital, Goole. A to Bd. Dep. £2 2s.

***†Oxford City C.**—Fixed price tenders for (a) detached house with garage at Eden-dr., Headington; (b) 44 maisonettes, with ancillary works, at Barns-rd., Cowley; (c) 12 old peoples' flats, with ancillary works, at Barns-rd., Cowley; (d) 28 maisonettes, with ancillary works at North Oxford 'B' estate, nr. Elsfield Way; (e) 40 houses with garages, off Harberton-rd., Marston; (f) extension to children's home, Windmill-rd., Headington. City A and Planning Officer.

MAY 8

***†Rotherham CBC.**—Crematorium at East Herringthorpe cemetery. Boro' E. Dep. £5 5s.

MAY 9

***†Axminster RDC.**—38 houses and four bungalows (in one or two contracts) at Millwey Rise housing estate. A: Fredk. S. Kett (L), Axminster. Dep. £3 3s.

***†Essex CC.**—Fixed price tenders for (a) extensions to Health Services clinic, Granleigh-rd., Leyton; (b) additional classrooms to New Thundersley county prim. sch., and (c) additional classroom to White Notley CofE prim. sch.; (d) proposed Hornchurch Whybridge branch library and further education centre. County A.

MAY 11

***†Chelmsford BC.**—27 flats at Bradford-st. Boro' E&S. Dep. £2 2s. Tenders by June 15.

Eire Electricity Supply Bd.—24 staff houses at Rhode, Co. Offaly. QS: John O'Brien, 8 Leinster-st., Dublin. Dep. £15 15s.

***†Portsmouth City C.**—(a) 13 flats at St. Mary's-rd. (b) Nine flats at High-st., Old Portsmouth. (c) Three flats at Victoria-rd. South. City A. Dep. £1 each contract.

***†Swansea CBC.**—94 dwellings on seven slum clearance sites at Landore and Plasmarl area. Boro' A. Dep. £2.

MAY 15

Dublin, RI.—New convent at Bon Secours hospital, St. Joseph's Glasnevin, Dublin. A: J. R. Boyd Barrett, 5 Camden-pl., Cork. Dep. £10 10s.

***†Slough BC.**—(1) 30 aged people's bungalows and four flats at Oatlands-dr./Waterbeach-rd.; (2) two cottages at Wexham Lodge; (3) four houses at Wood-la. Boro' E. £2 2s. each contract.

MAY 16

***†Staffordshire CC.**—Inclusion in approved list for building, electrical, heating and maintenance work. County A.

MAY 18

Killybegs, Co. Donegal, R.I.—Factory and four houses for I.R.C.A., Ltd., Killybegs. Gaffney & Cullivan, engineers and architects, Francis-st., Cavan. Dep. £15 15s.

***Leyland UDC.**—Fixed price tenders for 30 precast concrete garages at Wade Hall estate. E&S. Dep. £2 2s.

MAY 19

***Rhondda BC.**—(a) 86, and (b) 61 dwellings at rear of Edward-st., and Wood-st., Maerdy. Boro' Housing A, 13, Ystrad-rd., Pentre. Dep. £3 3s. each contract.

MAY 20

***Luton BC.**—Fixed price tenders for 40 prefabricated concrete garages at Birdsfoot-la., Runfold estate. Boro' A.

MAY 21

***Ealing BC.**—Fixed price tenders for (a) conversion of No. 64 Hanger-la., into five flats, and (b) erection of 34 flats at Lime Trees estate, Northolt. Boro' E. Dep. £5 each.

***Great Yarmouth CBC.**—Fixed price tenders for war damage reinstatement to the Tolhouse. Boro' E. Dep. £2 2s.

MAY 22

***Reigate BC.**—Fixed price tenders for 36 flats, outbuildings and 15 garages at the Dome estate, Redhill. Boro' E&S. Dep. £2 2s.

MAY 23

***†Bucks CC.**—(1) Fire brigade workshops at Aylesbury; (2) new grammar sch. at Burnham; (3) county prim. sch. at Little Chalfont; (4) magistrates court at Buckingham; (5) additional accommodation at Ley Hill county prim. sch.; (6) classroom at Stone CE prim. sch.; (7) alterations and refurbishing to Stoney Stratford magistrates court; (8) improvements to sanitary accommodation and water supply to Lower Winchendon CE prim. sch. County A. Dep. £3 3s. each contract. Tenders by July 6.

***East Grinstead UDC.**—Fixed price tenders for demolition of existing cottages and erection of 16 flats at Imberhorne-la. S. Dep. £3 3s.

MAY 25

***Slough BC.**—Public conveniences at Bowyer playing fields, St. Pauls-ave. Boro' E. Dep. £2 2s.

MAY 26

Abercarn UDC.—Four shops with four flats above at Pant housing estate. E. Dep. £3 3s.

MAY 27

***Feltham UDC.**—19 garages. E&S.

***Ilford BC.**—(a) Four cottages at Aldborough-hse./Hatch Farm; (b) modernisation of pre-war Council houses at Ley-st. estate. Boro' E. Dep. £2 2s.

MAY 28

***Lindsey CC.**—Fixed price tenders for first instalment of new county prim. sch. at Alford. County A.

JUNE 1

***Reading CBC.**—Fixed price tenders for library at School-rd., Tilehurst. Boro' A. Dep. £2 2s.

JUNE 6

***East Barnet UDC.**—Fixed price tenders for 65 dwellings and eight garages at Pine-rd. development area, N11. E&S. Dep. £2 2s.

JUNE 15

***East Riding of Yorkshire CC.**—Home for aged persons at Hessle, nr. Hull. County A. Dep. £2.

JUNE 30

***Redditch UDC.**—All-in fixed price tenders for 50 low cost houses, to tenderer's own design, for sale by Ccl., with roads and sewers, etc., at Webheath estate. E&S. Plans, etc., £1 1s.

NO DATE

***†Croydon CBC.**—Fire station at New Addington. Boro' E.

***University of Southampton.**—Dormitory and communal accommodation at School of Navigation, Warsash. (Est. cost £210,000.) A: Richard Sheppard, Robson & Ptnrs. (F/A), 5 Southampton-pl., London, WC1.

SERVICES, PAINTING, MATERIALS, ETC.

MAY 5

***†Leeds Regional Hospital Bd.**—Fixed price tenders for alterations to sluices, etc., at Lynfield Mount Hospital, Bradford. A to Bd. Dep. £2 2s.

MAY 8

***†Bournemouth CBC.** — Sub-contracts for metal windows, w.i. balustrading and electrical installation at West Howe estate. Boro' A.

***†Swansea CBC.**—(1) Heating, hot and cold water services, and (b) electrical installation to Dynevor county sec. sch. for boys. Boro' A. Dep. £2.

MAY 13

***†Durham CC.** — Structural steelwork at Egglescliffe new mod. sch. County A.

***†Leeds Regional Hospital Bd.**—Fixed price tenders for alterations to heating and hot-water services at Lynfield Mount hospital, Bradford. A to Bd., Park-parade, Harrogate. Dep. £2 2s. Tenders by June 9.

MAY 22

***Southport CBC.**—14 contracts for painting of houses on housing estates. Boro' A and Town Planning Officer's Department. Dep. £1 1s.

MAY 25

***Rochdale CBC.**—Heating installation at Heybrook schools. Boro' S.

MAY 27

***Reading CBC.**—Fixed price tenders for (a) internal redecorations to Reading school, and (b) alterations to lavatories at Groveland prim. sch. Boro' A.

JUNE 1

***Wembley BC.**—Conversion of Town Hall boilers to oil firing. Boro' E&S.

JUNE 3

***North Riding EC.**—Alterations and extensions to Northallerton grammar sch. A: J. Leathart & Son (F/A), 49 Welbeck-st., W1.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MAY 4

†Saffron Walden RDC.—2,600yd. of 9in. and 6in. stoneware and spun-iron pipe sewers, manholes, ventilators, etc., and sewage disposal works at Manuden. D. Belfour & Sons, MICE, 131 Victoria-st., SW1. Dep. £10.

MAY 11

Dublin, RI, City C.—1,640 lin. yd., of 9in. to 15in. SW drains 18in. dia. at Maas-rd. by-pass. City Treasurer, Exchange-bldgs., Lord Edward-st., Dublin. Dep. £5.

East Suffolk CC.—(1) 1,700 lin. yd. of new carriageway on north-west side of Bentwaters airfield, on Bromeswell-Leiston road, B.1069. (2) Widening and realignment of 1,700 lin. yd. of Eye-Stradbroke road, B.1117, from Burnthouse Corner, Eye, to Shingle-hse., Denham. County S. Dep. £5 each contract.

MAY 12

Northallerton RDC.—1,150 yd. 6-12 in. dia.

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pipe sewers, 200 yd. 4 in. CI rising main, ejector station, manholes, etc. and construction of sewage disposal works. Arnold Brooksbank & Son, constg. engrs., 48 Sunbridge-rd., Bradford 1. Dep. £5 5s.

Queensbury and Shelf UDC.—One mile of 9in. to 18in. dia. sewer, with manholes, etc., between Woodfall and Norwood Green, Shelf. E&S. Dep. £2 2s.

MAY 13

Ipswich CBC.—Fixed price tenders for 3,500 lin. yd. of 24in. to 27in. dia. and 500 lin. yd. of 9in. to 15in. dia. storm water sewers in open trench and heading, with four storm water overflows, manholes, outfall to River Gipping, etc. —North West area storm water relief scheme. Boro' E&S. Dep. £5 5s.

Kerrier RDC.—Manaccan water scheme.—Extension to Porthallow.—Fixed price tenders for two miles of 3in. dia. spun-iron mains with flexible joints. Herbert Lapworth Ptnrs., engrs., 25 Victoria-st., SW1. Dep. £5.

Portland UDC.—Supplying and laying, or laying only, of 6.42 miles of 15in. internal dia. gravitational water pipe line from reservoir at Gould's Hill, Upwey, to Camp-rd., Wyke Regis, Weymouth Water E.

Portland UDC.—Coast protection works at Chesil Beach.—1,430yd. mass concrete wall and 1,600ft. steel sheet piled wall, with drainage, etc. E&S.

MAY 15

Rugby BC.—(a) New bridge over Oxford Canal, Circle-rd. (A.428), in r.c. (span 26ft.); demolition of present bridge and other works. (b) Widening and reconstruction of 170yd. of Corporation-st. Boro' S. Dep. £2 2s. each.

MAY 16

North East Lincolnshire Water Bd.—Weelsby water mains—2,200 lin. yd. of 27in. and 31in. dia. prestressed concrete pipes and 5,200 lin. yd. of 21in. and 12in. dia. spun-iron pipes between Weelsby and Grimsby and Cleethorpes. E&Mgr. Dep. £2 2s.

MAY 18

***Cuckfield RDC.**—Construction of approximately 530 sq. yds. of tarmacadam footway, 880 sq. yds. of margin cultivation and other incidental works at Horsted Keynes. E&S. Dep. £2 2s.

Wainford RDC.—Worlingham, North Cove and Barnby sewerage.—1¼ miles of 6in. sewers, pumping station and ½-mile of 4in. asbestos rising main, etc. A. P. J. Cotterell & Son, engrs., 54 Victoria-st., SW1. Dep. £3 3s.

MAY 21

Isle of Axholme RDC.—Epworth sewerage.—(1) 2,050yd. of 6in., 9in. and 12in. dia. concrete tube sewers, 1,720 yd. of 7in. and 8in. dia. spun-iron rising main, two main pumping stations and sewage treatment works at Epworth. (2) Two 265 g.p.m., two 320 g.p.m. sewage pumps, and two 100 g.p.m. sludge pumps, with motors, starters, etc. John H. Haiste & Ptnrs., Ccl's. constg. engrs., Belmont-hse., 20 Wood-la., Headingley, Leeds, 6. Dep. £3 3s. each contract.

Kendal BC.—(1) Sandylands housing estate extension.—6,470 super yd. of carriageway, 5,590 super. yd. of footpaths, 1,200 lin. yd. of 33in. to 6in. dia. concrete and salt glazed ware sewers, kerbing, channelling, etc. (2) Wattsfield development.—3,650 super. yd. of carriageway, 2,170 super. yd. of footpaths, 695 lin. yd. of 9in. and 6in. dia. salt glazed ware foul and SW sewers, kerbing, channelling, etc. Boro' E&S. Dep. £2 2s. each contract.

Launceston BC.—Reconstruction and extension of sewage works. Lemon & Blizard, constg. engrs., College-ave., Mannamead, Plymouth. Dep. £3 3s.

MAY 22

Halstead RDC.—19 miles of 3in. dia. spun-iron pipes and ½ mile of 1½-1¾in. dia. polythene tube water mains, etc. John Taylor & Sons, constg. engrs., Artillery-hse., Artillery-row, SW1. Dep. £5 5s.

MAY 25

Forehoe and Henstead RDC.—4,000yd. of 4in. and 3in. dia. spun-iron pipe water mains at Flordon. Elliott & Brown, Ccl's. constg. engrs., Stanley-hse., Pelham-rd., Nottingham. Dep. £5 5s.

Kerry, RI, CC.—(1) 4,100 lin. yd. of piping, infiltration gallery, pumphouse and elevated r.c. water tower of 12,000 gallons capacity at Moyvane. (2) 3,439 lin. yd. of 6in. to 12in. dia. concrete pipe sewers, 57 lin. yd. of 9in. and 12in. Class 'B' pipes, manholes, etc., at Tarbert. E. R. Ryan, constg. engr., 1 Montpelier-terr., Galway. Dep. £10 10s.

Leominster BC.—Reservoir, pumping station and booster house; 2,000yd. 12in. rising main. Ward, Ashcroft & Parkman, constg. engrs., 38 The Temple, Dale-st., Liverpool, 2. Dep. £5 5s.

Newark RDC.—Fixed price tenders for additions to Balderton sewage disposal works. Elliott & Brown, Ccl's. constg engrs., Stanley-hse., Pelham-rd., Nottingham. Dep. £5 5s.

Northallerton UDC.—Fixed price tenders for sewage disposal works extensions. Willcox, Raikes & Marshall, engrs., 33 Great Charles-st. Birmingham 3. Dep. £10 10s.

Williton RDC.—1,700 lin. yd. of 6in. to 18in foul and SW sewer, 600yd. of water main 4,200 sq. yd. of carriageway, and 2,800 sq. yd of footpaths at Stogursey housing site. E&S. Dep. £3 3s.

JUNE 3

Tottenham BC.—Stonebridge Brook improvement.—SW sewer consisting of 215 lin. yd. of 72in. dia. concrete pipes in open cut, 675 lin. yd. of 72in. dia. concrete tunnel rings and 360 lin. yd. of 66in. dia. tunnel rings, with 12 large manholes, etc., in Chestnuts recreation ground, St. Annes-rd. and Green Lanes. J. D. & D. M. Watson, M/MICE, constg. engrs., 67 Tufton-st., SW1. Dep. £10 10s.

JUNE 16

Middlesex CC.—3,373 lin.yd. of 24in. to 45in. dia. sewer in trench and 1,270 lin. yd. in heading, with manholes, etc., from Arnos-gro., Southgate, through Friern Barnet to Summers-la., Finchley, and from East Barnet sewage disposal works southwards alongside Pymme's Brook. J. D. & D. M. Watson, M/MICE, Ccl's. constg. engrs., 67 Tufton-st., SW1. Dep. £10 10s.

GENERAL BUILDING WORK

(LONDON)

Battersea.—School Improvements.—The LCC Schools Planning Sub-Com. has approved a scheme for the improvement of the accommodation for the teaching of science at Sir Walter St. John's school, a voluntary-controlled secondary school. A new two-storey building will contain a lecture room, two chemistry laboratories, physics and biology laboratories, etc., linked to the existing buildings by a covered way. The estimated cost of the scheme is £49,930.

Chelsea.—School Improvements.—The LCC Schools Planning Sub-Com. has approved a scheme for the adaptation of St. Luke's Hall, adjoining Kingsley county secondary school, to provide metalwork shop, and for the erection, on the site of outbuildings which are to be demolished, of a technical drawing office, stores, etc. The architect for the scheme, which is estimated to cost £12,741, is John Bickerdike (A), 88 Portman-sq., W1.

Friern Barnet.—Houses and Flats.—The Housing Com. has approved a revised layout plan for the site adjoining the Bookbinders' Cottage Homes, providing for 24 one- and two-bedroom flats, 14 bed-sitting-room flats and eight low-cost houses. The Boro' E&S is E. H. Start, AMICE, AMIMunE.

Hackney.—School Improvements.—The LCC Schools Planning Sub-Com. has approved proposals for improvements to South Hackney county sec. sch., Cassland-rd., at an estimated cost of £14,500.

Hackney.—School Improvements.—The LCC Schools Planning Sub-Com. has approved a scheme for improving the teaching accommodation at the annexe to Clapton Park county secondary school at Chelmer-rd. A single-storey housecraft centre will be demolished and a three-storey wing will be erected in its place. The cost of the improvements is estimated at £24,260.

Hammersmith.—School Improvements.—The LCC Schools Planning Sub-Com. and the School Governors have approved a scheme for the provision of a metalwork shop and a technical drawing office and for improving the accommodation for the teaching of science at Addison county secondary school at an estimated cost of £12,000.

Islington.—Site Acquisition.—The Education Com. of the LCC proposes to acquire, mainly by agreement, a site at Packington-st. and Queen's Head-st., N1, for the extension of Tudor sec. sch. to provide a new county sec. sch. for 1,250 boys and girls.

Kensington.—School.—The managers of the Servite RC primary school at Fulham-rd. propose the rebuilding of the school, severely damaged during the war, on its present site, extended, to provide, at the first stage, 320 primary school places at an estimated cost of £77,791. The second stage will add 40 nursery school places and an extension of the play space.

London (City).—Offices.—The British Petroleum Co., Ltd., Britannic-hse., Finsbury-circus, EC2, has purchased a site between Tenter-st., Ropemaker-st. and Moorgate for the erection of new headquarters offices. Planning permission for a building up to 27 storeys in height was granted by the LCC to the previous owner of the site.

St. Pancras.—Library.—The Planning and Housing Development Com. propose the redevelopment of the site of the Bedford Theatre for central library purposes and recommends that Skinner & Bailey (A), 74 Queensway, W2, be commissioned to prepare a sketch scheme.

St. Pancras.—Library.—The Planning and Housing Development Com. recommends that the redevelopment of the site of 262-268 (even) Kentish Town-rd. should include the branch library which it was proposed to erect under the old people's dwellings on the site of 76-82 Oseney-cres. and that Thomas Sibthorp (F), AMTPI, should be appointed as architect for the scheme.

Sutton and Cheam. — Private Housing Scheme—Flats and Garages.—The Lockington Property & Investment Co. is hoping to gain full planning consent from Sutton and Cheam Council and Surrey Planning Com. for a private housing scheme which has already been approved by the Council's TP Com. They plan to demolish 12 houses, from No. 112 to No. 136 Brighton-rd., Sutton, and build 171 two-bedroomed flats and 21 one-bedroomed flats, and 113 private garages. The scheme incorporates the construction of new roads.

Westminster.—Hotel Extension, Shops and Offices.—Planning permission has been given to the Murrayfield Real Estate Co., Ltd., for a new building with shops, offices and hotel accommodation along the west side of Charing Cross station forecourt and abutting on to Craven-st. as far as the back of the Charing Cross hotel. The building will consist of ground floor, base-

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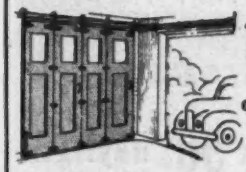

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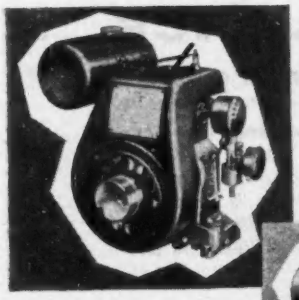

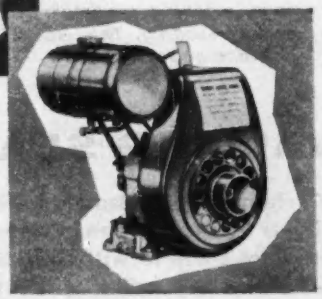

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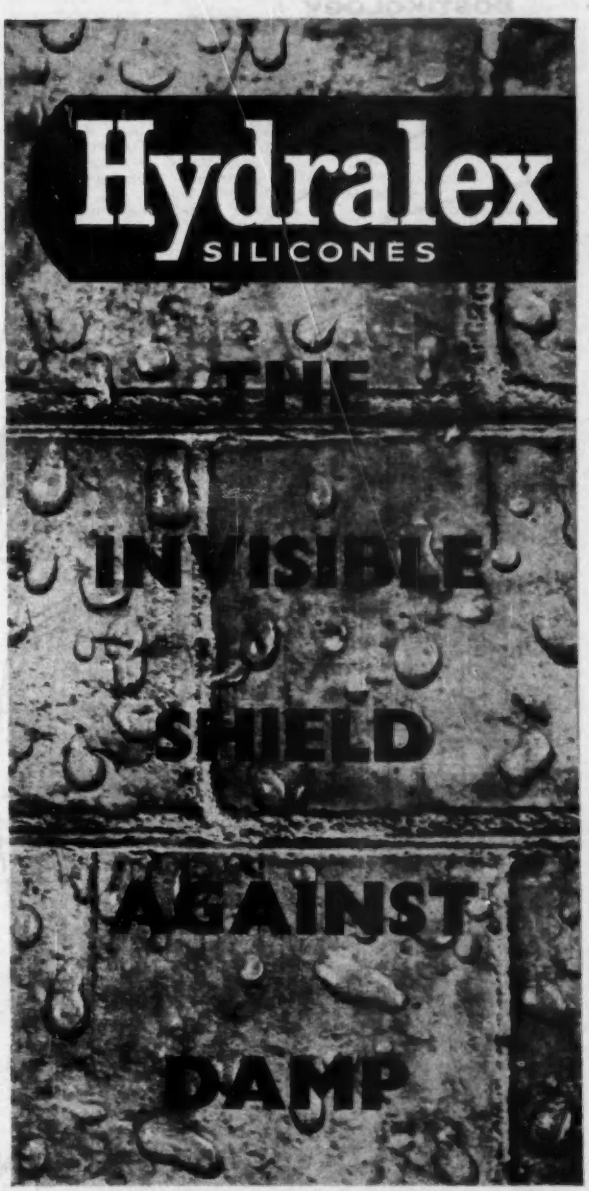

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ment, and eight upper floors, in which a 47-bedroom extension to the hotel will be provided. The architects for the project, which is estimated to cost about £1m., are J. Seymour Harris & Ptnrs. (F), 13 Harley-st., W1.

Westminster.—SCHOOL IMPROVEMENTS.—The LCC Schools Planning Sub-Com. and the School Governors have approved alterations and improvements to Ebury county sec. sch. at an estimated cost of £13,800.

Westminster.—REDEVELOPMENT.—The Housing Com. recommends the purchase, by agreement, of Nos. 1-6 Dufours-pl., 60-74 (even) Broadwick-st. and 7-13 (consecutive) Marshall-st. (including the factory premises at the rear) and is considering steps to be taken for the redevelopment of the site by shops and business accommodation, with flats on the upper floors, in a manner similar to that approved for the Berwick-st./Hopkins-st site.

Westminster.—MULTI-STOREY CAR PARK.—The Car Parking (Special) Sub-Com. has approved preliminary sketch plans prepared by Frank Risdon (F) for a multi-storey car park for 400 cars on the site of 5, 6 and 7 Audley-sq. and 5, 6 and 7 Waverton-st., with provision for a petrol filling station on the Waverton-st. frontage, and recommends that Mr. Risdon be appointed to prepare details of the scheme and to supervise the works.

(PROVINCIAL)

Alfreton.—Derbyshire CC propose new fire station at Nottingham-rd.

Ashington. — Housing development scheme being considered by UDC for erection of eight storey blocks of flats for old people. S: M. Jameson, Council Offices.

Blackburn.—Manchester Regional Hospital Bd. proposes extensions to pathology dept. at Queens Park hospital. A: Bradshaw Gass & Hope (F), 19 Silverwell-st., Bolton.—TC seeks loan £39,930 for new aged persons' hostel at Shadsworth.

Blackburn.—TC propose demolition of premises at King-st. and Montague-st. and erection of three-storey flats, houses and shops.—CofE Diocese propose expenditure of £250,000 on school building works during next four years.

Blyth.—TC to borrow £67,152 for erection of 66 dwellings at Cowpen-rd. estate. Boro' E: D. W. Foster.

Blyth.—Inquiry held into appeal by United Automobile Services, Ltd., Grange-rd., Darlington against refusal of permission for £25,000 bus station at Post Office-sq.

Bootle.—TC to prepare plans for improvements to Town Hall.

Bredbury and Romiley.—UDC approved plans for 30 houses and bungalows at Beech-la. for Drury Estates, Ltd.

Burnley.—Sion Baptist Church proposes rebuilding of church on site of Hill Top.

Bury.—Manchester Regional Hospital Bd. proposes twin operating theatre block and demolition and replacement of Renshaw Ward with bigger ward block at General Hospital.

Carlisle.—J. Millar & Sons, Ltd., builders, 15 London-rd., Carlisle, to erect 14 houses at Carlton-gdns. to plans by Hodgson & Tritton, 18 Bank-st., Carlisle.—H. V. England, Woodside Lodge, Wreay, Carlisle, to erect 12 houses and 30 lock-up garages at Manor-rd., Carlisle.

Chester.—G. & W. Collins Ltd., Liverpool, propose new factory at Sealand-rd. A: R. G. Ellis (A), 16 Cook-st., Liverpool.

Chichester.—MofH agreed to expenditure of £62,000 for twin operating theatres at St. Richard's Hospital, and a theatre suite, including sterilising room, sluice rooms, and recovery ward.—South West Regional Hospital Bd. agreed in principle to provision of staff hostel at St. Richards Hospital for 20 nurses.

Coventry.—H. E. Phillips Ltd., propose redevelopment of premises at King William-st. A: S. J. Oldham & Ptnrs. (L), 63, Queens-rd.

Crook (Co. Durham). — UDC to build 50 houses at Watergate estate, and 30 at Sunnybrow. Council's A: T. A. Page, Son & Hill (F), 75 King-st., South Shields.

Crosby.—TC proposes new central library at Crosby-rd. North.

Cumberland.—CC planning £23,000 extension to Newton Rigg Farm sch., Penrith. Work may be carried out during 1959. County A: J. H. Haughan (F), 15 Portland-sq., Carlisle.

Dalton.—UDC proposes 11 houses at Lord-st. and six aged persons' bungalows at Askam.

Darlington.—Boro' A (E. A. Tornbohm), prepared preliminary sketch plans for proposed new municipal buildings.—Edgar Lawson, Ltd., contractors, Alliance Works, Albert Hill, Darlington, to erect office block and workshop, with drainage, at Yarm-rd.—TC to erect old people's houses at Hewitson-rd. South, and Nightingale-av.

Droxford, Hants.—RDC approved 4 two-bedroomed houses and four elderly persons' bungalows at West Meon in 1959 programme.—CC to build new county prim. sch. for 280 pupils at Denmead.

Dudley.—TC approved revised layout for Maple Green, Old Park Farm estate, to provide five blocks of flats and 21 old people's bungalows.—Approved layout for six blocks of flats (60 dwellings) and three bungalows at St. Giles-st., Netherton.

Dukinfield.—TC to invite Homeville, Ltd., Maidenhead, Berks., to prepare plans and layout for 160 dwellings at Yew Tree-la. site.

Durham.—CC to erect residential nursery at Lanchester-rd., Durham City. County A: G. R. Clayton (F), South-st.

Fareham.—UDC to consider acquiring all or part of Titchfield RAF station (now vacant) and other suitable sites for development as industrial estates.

Farnham.—UDC proposes bungalows for old people at Beavers-yd. and College-gdns.

Felling, Co. Durham.—UDC considering erection of community hall and shops at Carlisle-st. and proposals for workmen's club at Leam-la. housing estate. S: R. Morton.

Gosforth.—UDC approved revised plans by Cackett, Burns Dick & MacKellar (F/A), 21 Ellison-pl., Newcastle-on-Tyne, for public house at Jubilee-rd.

Guildford.—BC to build new civic hall with restaurant, bar, caretaker's flat, etc., at junction of London-rd. and Dene-rd. A: Bridgwater & Shepheard (F/A), 42 Bruton-pl., W1.

Halesowen.—TC propose new public swimming baths on south side of Great Cornbow.

Haltwhistle.—RDC considering erection of block of flats at Greenholme. S: J. Dand.

Hampshire.—Hampshire Fire Service seeks sites for new fire stations at Fareham, Portchester and Wickham.

Haslingden.—MH&LG approved proposals for 23 old persons' bungalows, with warden's house and communal room on Greenfield site.

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Hastings.—TC approved proposal for 8-storey block of flats on bombed site at Warrior-sq., St. Leonards, for George Stone (Hastings), Ltd. A: Willan, Stewart & Waite (A), Folkestone.

Hexham.—New maternity unit proposed at Hexham General Hospital by Newcastle Regional Hospital Bd., Benfield-rd., Newcastle-on-Tyne. Bd.'s Ch. A: P. H. Knighton, MBE, (A). First part of scheme may be started in few months.

Heywood.—Crown Brewing Co., Ltd., propose alterations and extensions to 'Seven Stars Hotel,' Tower-st. A: A. Brocklehurst & Co. (F), Derby-chmbrs., The Rock, Bury.

Hove.—Lands Tribunal granted application by J. & D. Martin, Ltd., of Mill Hill, to build 13-storey block of 102 flats at The Drive.

Keighley.—TC approved sale of 29-acre site at Oakbank estate to West Riding CC for new boys' grammar sch. and new prim. schools.

Keswick.—S. R. Lusher, to prepare scheme for 20 single persons flatlets for UDC.

Lancashire.—CC proposes 3 extra classrooms at Culcheth sec. mod. sch. and extensions and alterations at Woodville special sch., Longridge.

Leeds.—Regional Hospital Bd. proposes extensions to hospitals at Scarborough and Bridlington, £290,000 est.

Leeds.—Jones & Stocks (F), 7 Blenheim-terr., Woodhouse-la., Leeds, 2, are A for new hall of residence for Senate of University, £1m. est.

Liverpool.—City C proposes two blocks of 11-storey flats on corner of Bewley-dr. and Broad-la., Southdene.

Liverpool.—Regional Hospital Bd. approved in principle scheme for provision of additional accommodation (approx. 20 beds) for women at Manor Hospital, Great Sutton. Provision of epileptic unit at Winwick Hospital.

Liverpool.—TC approved revised plans for new health centre at Mill-st.—Proposes new fire station at Storrington-ave.

Llandudno.—UDC proposes new branch library.—Approved plans for 15 houses at Beech-dr., Penrhyn Bay, for Frank Tyldesley, Ltd.

Lytham St. Annes.—Plans submitted to BC for factory at Preston-rd. for Dudley Hill Engineering Co., Ltd.—Extensions to works at Dock-rd. for Eldorado Ice Cream Co., Ltd.—13 bungalows at Elmhurst-rd. for C. & F. Williamson Ltd.—14 bungalows at Whitby-rd. and 14 at Scarborough-rd. for Mr. R. D. Clegg.—Factory at Preston-rd. for A. L. Talbot (Builders) Ltd.

Manchester.—EC proposes new College of Further Education at Princess-st.; new infants' sch. at Weston-gro. and Longley-la., Northenden; maternity and child welfare dental clinic at Wilmslow-rd., Didsbury; new combined clinics at Plant Hill-rd., Blackley, and Charlestown-rd., Charlestown.—Appointed A. V. Booker (A), 32 Kennedy-st., Manchester, as A for new premises for Fallowfield C of E tech. high sch. for girls, and Mather & Nutter (A), Atlantic-hse., Chepstow-st., Manchester, as A for extensions at St. Paul's RC sec. sch. Approved erection of temporary classrooms at Ladybarn sec. sch. for boys, Newall Green sec. sch., Baguley Hall sec. sch., Moss Nook sec. sch., Oldwood county sec. sch. and Claremont sec. girls' sch.—Regional Hospital Bd. received Ministry approval for extensions to x-ray department at Withington hospital, Manchester; extension to maternity unit at Sharoe Green, Fulwood, nr. Preston; twin operating theatre suite at Royal Manchester Children's Hospital Pendlebury.—TC approved erection of 12 aged persons' bungalows, 4 cottage flats and 5 houses at Lomond-rd., Peel Hall-rd. and Hollinhey-rd., Wythenshawe; 3 shops and 12 flats at Greenwood-rd. East and Nathan-rd., Wythenshawe; conversion of 64 flats into 48 flats at Alexandra-pl., Rochdale-rd. and Moore-st.—Approved erection of shops, bank and offices with basement garage on site bounded by Peter-st., Mount-st. and Bootle-st. for Montague Group of Companies. Plans by H. Owen Luder (A), 79 Regency-st., Westminster, SW1.—Approved erection of St. Bernard's RC prim. sch. at Burnage-la., Burnage, for RC Diocese of Salford. A: Reynolds & Scott (F/A), 9 Albert-sq., Manchester.

Manchester.—Lewis's, Ltd., propose five-storey extensions on Marble-st., Fountain-st., site, linked to main store by subways, £400,000 est. A: Messrs. J. W. Beaumont & Sons, Mosley-st., Manchester.—Albany Building Co., Ltd., propose 12 houses and garages at Hollinhey-rd. and Goldie-ave., Peel Hall. A: R. G. Parry (A), 17

Priestnall-rd., Heaton, Mersey.—TC approved use of mineral water factory for storage and distribution of printing machines with showroom, repair, servicing and office accommodation at 329 Stockport-rd., Longsight, for H.A.P. Services, Ltd. Plans submitted by Callingham, Griffiths & Bate, 4 Grays Inn-sq., Grays Inn, WC1.

Manchester.—TC approved plans:—Rebuilding of motor showroom and repair shop at 38 Long Millgate for Victoria Motors, Ltd. Plans by Building Design Group, 18 Booth-st., Manchester.—Extensions to factory to form packing dept. at Paston-rd., Northenden, for Fielden Electronics, Ltd. A: Francis Jones & Son (F/A), 178 Oxford-rd., Manchester.—New hotel to be known as 'Pink Bank' Hotel at Pink Bank-la. and Elgar-st., Longsight, for Joseph Holt, Ltd. A: A. H. Brotherton & Ptnrs. (L), 38 Oxford-rd., Manchester.—Unicos Property Corpn., Ltd., propose nine-storey office building at 53 Fountain-st. A: Cruickshank & Seward (F), 196 Deansgate, Manchester.

Manchester.—TC approved alterations to factory, offices and two-storey extensions at Paston-rd., Northenden for Fram Reinforced Concrete Ltd. A: Francis Jones & Son (F), 178 Oxford-rd., Manchester.—Extensions to warehouse and new loading dock at Shakespeare-st. and Everton-rd., Chorlton-on-Medlock, for W. Mills & Sons Ltd. A: Heywood & Ashworth, 2 John Dalton-st., Manchester, 2.—A. W. Keggan & Sons, Ltd., Swan-bldgs., 20 Swan-st., propose erection of single-storey building at Cable-st.

Manchester.—TC approved 3-storey extension to Salvation Army hostel at Clifford-st. and Higher York-st. for Captain M. S. Rea, Salvation Army, 26 Clifford-st., Chorlton-on-Medlock, Manchester.—Approved plans for single-storey shop and showroom at Stockport-rd. and Limegro., Longsight, for Cheetwood Estate, Ltd., 1/3 Teneriffe-st., Salford.

Mansfield.—Plans submitted to BC:—Extensions to Swan Hotel at Church-st. for Mansfield Brewery Co., Ltd.—Extensions to works at Milton-st. for A. C. Vallance Ltd.—16 houses at West Bank Lea and West Bank Link for V. G. Yeomans.—Extensions to hostel at Sherwood Village Settlement, Ransom Sanatorium, Ransom-rd., for Notts. CC.—Extension to occupational centre at Debdale-la. for Notts. CC.—New licensed premises to be known as 'Ram Inn' at Littleworth for Mansfield Brewery Co., Ltd.

Middlesbrough.—Plans being prepared by A. J. Elder (A), 65 Albert-rd., Middlesbrough, for second floor to premises at Norton-st. for British Insulated Callenders' Cables, Ltd.—P. R. Middleton & Ptnr. (A), 111 Albert-rd., Middlesbrough, are A for proposed warehouse at Boundary-rd. for Wilson & Leatherland, Ltd.—Richard Turley & Associates (A), 46 Jesmond-rd., Newcastle-on-Tyne, are A for proposed showroom, offices, garage extensions and store at Acklam-rd. for Murray & Charleton, Ltd.—Sketch plans prepared for proposed office block at Cargo Fleet-la. for Wimpey & Co., Ltd., builders, Fenwick-terr., Newcastle. A: B. C. Jones (A).—W. H. Watts & Sons, furniture dealers, to carry out alterations and additions to shop premises at 114-126 Parliament-rd. to plans by Garbutt, Archibald & Archibald (L/A), 23 Albert-rd., Middlesbrough.

New Forest.—SW Hampshire Area Planning Com. recommends approval of plans for new prim. sch. off Westbeams-rd., Sway, and for RDC estate of 97 houses and 44 garages at Butts Ash-la., Dibden.

Newburn, Northumberland.—UDC to erect 30 houses at Kielder-rd. and Valley View, Lemington. S: J. A. Weatherley.

Newcastle-on-Tyne.—Revised plans approved for shopping developments at Kirkwood-dr. and Halewood-ave. for Arndale Property Trust, Swan Arcade, Bradford.—J. H. Napper & Ptnrs. (F), Eldon-pl., Newcastle, prepared plans for hall of residence at Henderson Hall for King's College.—C. A. Parsons & Co., Ltd., Shields-rd., Newcastle-on-Tyne, to extend their heavy erecting shop at No. 5 bay and have prepared own plans.—Plans prepared by Wetherell, Lamb & Ptnrs. (L/A), 24 Picton-pl., Newcastle, for another phase of scheme for multi-storey garage at Westmorland-rd. and Lord-st. for Adams & Gibbon, Ltd. No contracts let.—R. Gardner, Holborn-cres., Ryton, prepared plans for 10 houses at Gillies-st. for R. C. Comb.

Newcastle-on-Tyne.—Plans being prepared by L. J. Couves & Ptnrs. (F/A), Grainger-chmbrs., Hood-st., Newcastle-on-Tyne, for additions to TA centre at Church-st., Walker, for Northumberland TA.—Messrs. Cussins, Ltd., contractors, The Drive, Gosworth, to erect 38 houses at Kenton-ave.—Plans being prepared for rebuilding of workrooms, stores, lavatories, etc., at Market-st. for Messrs. Bainbridge (John Lewis & Co., Ltd.). A: R. N. Pearson, 19 Bolsover-st., London, W1.—Plans being prepared by E. M. Lawson (A), Barras-bldgs., Barras Bridge, Newcastle, for garage and filling station at Stowell-st. and Newgate-st. for Chatsworth Investments, Ltd., and for alterations and additions for H. C. Troldahl, Ltd.

Newcastle-on-Tyne.—Joint Committee representing Durham and Northumberland CCs and Newcastle City Council is considering £490,000 scheme for new domestic science training college at Manor House, Longbenton. It is understood that private A is to be appointed.

Newcastle-under-Lyme.—Ind Coope Ltd., Station-st., Burton on Trent, propose erection of new licensed premises at Marsh-way, Wolstanton.

North Riding.—CC to borrow £150,150 for erection of new Sir William Turner's sch. at Redcar (A: Leathart & Son (A), 49 Welbeck-st., London, W1. QS: Clevely & Bass, 47 Gordon-sq., London, WC1) and £119,450 for mod. sch. at Saltburn (A: Grenfell Baines & Hargreaves (A/A), Guildhall-st., Preston).—Fresh tenders to be invited for additions to Northallerton grammar sch. A: Leathart & Son (A), 49 Welbeck-st., London, W1.—Messrs. Gleeds, 8 St. James-st., Derby, have been appointed QS for proposed Marton county prim. sch. County School A: D. W. Dickenson (F), County Hall, Northallerton.

Nottingham.—City C to build residential training college for teachers on 34-acre site at Clifton. City E&S: R. M. Finch, OBE, MICE, Ch. A: J. R. Sketchley (A), AMTPI.

Oldham.—BC proposes 24 flats at Alt estate.

Ormskirk.—BC proposes erection new highways depot at Green-la.

Orrell.—UDC proposes erection of 16 bungalows at The Green Hey site, Kitt Green.

Portsmouth.—Improvements planned for Royal Portsmouth Hospital include rebuilding of one ward, provision of several new depts. and modernisation of nurses' home. Further proposals include new two-storey building housing Orthopaedic and Pharmaceutical depts. on site next to outpatients' dept.

Preston.—S.P.D., Ltd., Greenbank, E1, propose new distribution depot. Consult. engrs., Frederick S. Snow & Ptnrs., Monro-bldg., Wellington-st., WC2.

Rawtenstall.—Methodist Authorities propose extensive alterations to Longholme Methodist Chapel.

Redcar.—TC to build 150 houses at Lakes estate to plans by Boro' E: K. W. Ash.

Romsey and Stockbridge.—Immediate start on Stockbridge county sec. sch approved by MofE.

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Rotherham.—EC received Ministry approval for extensions to grammar sch., £64,190 est.

Rowley Regis.—Licensing Magistrates approved erection of new licensed premises at corner of Dakham-rd. and Regent-rd., Oakham, for Ansells Brewery Ltd.

Rugeley.—City Brewery Co. (Lichfield), Ltd., 7 Lovatt-st., Wolverhampton, propose new licensed premises at Brereton.

Runcorn.—UDC approved revised plans for erection of Market Hall, £48,000 est.—Approved plans, new shopping office at Castner Kellner Works for ICI Ltd.—New shopping development at Church-st. for Goddard & Smith.

Salop.—EC submitted to Ministry of Education major projects totalling £1,380,000 for inclusion in 1960-62 programme. These cover extensions to 11 existing schools, and the building of nine new ones. Proposed new schools are Harlescott Grange, jun. (£54,208); Wellington RC mod. (£93,456); Stokesay, mod. (£95,250); Monkmoor, mod. (£148,104); Wellington, jun. (£54,208); St. Mary's RC jun., Shrewsbury (£47,432); Ketley Bank (£54,208); Ironbridge, jun. (£55,000); Pontesbury (£23,000).

Sheffield.—Freeman, Oakes & Co., Ltd., propose erection of new premises at Tenter-st. Constg. engrs.: Husband & Co., 388 Glossop-rd.

Sheffield.—Pearl Assurance Co., Ltd., propose new multi-storey office block at King-st. and Heymarket. A: Elsworth Sykes & Co. (L/A), Ruskin-chbrs., Scale-la., Hull.

Shrewsbury.—G. Wimpey & Co., Ltd., propose 150 houses at Preston-st.—Alverley Property Co., Ltd., 5 Parsons-st., Dudley, propose 100 houses and bungalows at Reabrook-ave.

Stafford.—Home Office propose construction of new boiler house at Stafford Gaol, £22,000 est.—RDC propose erection of 34 aged persons' bungalows at Gnosall.

Standish.—UDC seek loan £31,743 for 20 houses at Lark Hill site.—Approved layout for 20 aged persons' bungalows at Broomfield site.

Stanley, Co. Durham.—Durham CC plans new library (3,000 sq. ft.) at Stanley, but work not expected to start until 1961-2. County A: G. R. Clayton (F), South-st., Durham.

Stockton-on-Tees.—Moore & Cartwright, Ltd., builders, High-st., Norton-on-Tees, are planning housing developments on 13¼ acres of land at Darlington-la., Norton.—Joshua Wilson & Bros., Ltd., Thistle Green, Stockton, propose wholesale grocery warehouse on Newport Bridge approach road.—Committee of TC is considering erection of swimming baths.

Stretford.—Ingersoll Rand Co., Ltd., propose new factory adjoining existing premises. A: Harry S. Fairhurst & Son (F/A), 55 Brown-st., Manchester.

Sunderland.—EC to carry out additions to Havelock jun. sch. at a cost of £20,000. Boro' A: H. C. Bishop (A), Grange-hse., Stockton-rd.

Sunderland.—Plans being prepared for showrooms and filling station at 20-28 Roker-ave. for H. Young (Motors), Ltd., Front-st., Chester-le-Street. A: Newrick & Blackbell (F/F), 58 John-st.

Sunderland.—MH&LG approved extension scheme at Sunderland Library, Art Gallery and Museum. Est. cost £86,000. Boro' A: H. C. Bishop (A), Grange-hse., Stockton-rd., Sunderland.

Tottington.—UDC proposes 42 houses in current programme. S to report on sites at Kirklees-st., Wesley-st., Harwood-rd. and Back Wesley-st.

Tynemouth.—TC to build eight two-storey flats at Addison-st., 16 at Vicarage-st. and 16 at Coronation-st. Tenders expected in July. Boro' E: D. M. O'Herlihy, 16 Northumberland-sq., North Shields.

Tynemouth.—Tenders received by TC for 10 police houses considered to be too high, and further consideration being given to scheme. Boro' E: D. M. O'Herlihy, 16 Northumberland-sq., North Shields.

Up Holland.—J. W. Liptrot & Co., Ltd., Brook-la., Pemberton, Wigan, propose 53 houses at Spencers-la.

Wakefield.—John Smiths's Tadcaster Brewery Co., Ltd., Tadcaster, propose new hotel at Henday-la.

Wallsend.—TC informed that house building can take place at Wiltshire-gdns., provided structural precautions are taken with the foundations. Boro' E: C. E. Faddy.

Walsall.—BC to prepare detailed plans for

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adaptation and reorganisation of central library.—Approved layout plans for development of Orlando-st. area by 169 dwellings.

Walsall.—TC seek loan £250,000 for Phase 2 of new bathing establishment. Approved in principle new training college for teachers at Shustoke Farm, Birmingham-rd., £580,000 est.

Warrington.—Boys' Club propose extensions to their premises, £18,000 est.

Wellington (Salop).—W. Butler & Co., Wolverhampton, propose demolition of Swan Hotel, Watling-st., and erection of new premises.

West Hartlepool.—Proposal by Messrs. Wimpey & Co., Ltd., Orchard-hse., Fenwick-terr., Newcastle-on-Tyne, to erect houses on 13 acres of land at West Park, being considered by Ministry. TC has asked Messrs. Goddard & Smith, estate agents, 22 King-st., St. James, London, SW1, to prepare report on proposed scheme for developing central area shopping centre.

West Hartlepool.—EC to carry out extensions to girls' high sch. and it is recommended that private A be appointed.

West Lancashire.—RDC seeks Ministry approval for one-bedroomed bungalows on following sites:—36 at Oriel-dr., Aintree; five at Whalley-dr., Aughton; 10 at Carr Moss-la., Halsall; 17 at Moorhey-rd., Maghull; and eight at Highsands-ave., Rufford.

Wigan.—BC invite applications from building companies for design and erection of multi-storey flats and maisonettes in Douglas-st. and Lime-st. areas.

Willenhall.—UDC proposes 14 aged persons' bungalows and 16 flatlets.

TENDERS

* Denotes *accepted*.
† Denotes *provisionally accepted*
‡ Denotes *recommended for acceptance*.
§ Denotes *accepted subject to modification*.
¶ Denotes *accepted by H.M. Government Departments*.

Billingham-on-Tees.—RC church at Central-ave. A: T. A. Crawford (L), 80 Borough-rd., Middlesbrough. *Hudson Bros., Ltd., Fidler-st., Middlesbrough.

Brierley Hill.—New public baths on site at Cottage-st. for UDC. A and Housing Director: John R. Moore (A) QS: T. Pemberton, FIAS. *McKeand Smith & Co., Ltd., Showell-rd., Wolverhampton. £110,601.

Brownhills.—Six shops and six maisonettes at High-st. for UDC. E&S: C. H. Hunt, AMIMunE, Coombe-hse., Brownhills. *Edge & Haines, High-st., Brownhills.

Chelsea.—New multi-storey hotel with block of shops, restaurant and two floors of offices on north side of Cadogan-pl., SW1, for Edger Investments, Ltd. (for lease to Hotel Corpn. of Great Britain, Ltd.). A: Michael Rosenauer (F), 13a Old Burlington-st., W1. *Sir Robert McAlpine & Sons, Ltd. £1½m. est.

Chesterfield.—64 dwellings at Dunston Hall estate for BC. *E. C. Rippon, Ltd., Moor-la., Mansfield. £79,095.

Croydon.—Works for CBC:—85 houses, 92 flats, 32 maisonettes, seven bungalows and 79 garages at Shrublands Garden estate and 46 houses, 114 flats, 12 maisonettes and 88 garages at Castle Hill housing estate (fixed price tenders). *Carlton Contractors, Ltd., Carlton-hse., Ashley-rd., Epsom. £404,461 and £340,548 (subject to MH&LG approval):

Darlington.—RC church at Cockerton. A: T. A. Crawford (L), 80 Borough-rd., Middlesbrough. *R. Blackett & Son, Ltd., 63 Bondgate, Darlington. £25,000.

Dewsbury.—Three new geriatric wards at Staincliffe Hospital for Leeds Regional Hospital Bd. *Turriff Construction Corpn., Ltd., Budbrooke-rd., Warwick. £113,000 approx.

Felling, Co. Durham.—20 houses with roads and sewers on Wood Green housing site for UDC. S: R. Morton. *Direct labour.

Gateshead.—Distribution depot and offices at Team Valley trading estate for Renold Chains, Ltd., Manchester. A: Arthur & Kirkup (L), 13 Swinburne-st., Gateshead. *Bewley & Scott, Ltd., Dunston-on-Tyne.

Hartlepool.—Factory extensions for Paragon, Ltd. A: Newrick & Blackbell (F), 58 John-st., Sunderland. QS: Hall & Stafford, Sunniside-chbrs., West Sunniside, Sunderland. *Middleton & Co., Ltd., Queen Alexandra Bridge Approach, Sunderland.

Hartlepool.—RC sch. at King Oswy-dr. A: T. A. Crawford (L), 80 Borough-rd., Middlesbrough. *J. W. Henderson & Co. (Stockton), Ltd., Church-rd., Stockton.

Holborn.—112 flats at Ormond-close housing site for MBC. Boro' A: S. A. G. Cook (A). Constg. engr.: W. V. Zinn. QS: Messrs. Oswald E. Parratt. ‡John Laing & Son, Ltd. £302,071.

Huddersfield.—Erection of Rawthorne county jun. sch. for TC. *J. Wimpenny & Co., Ltd., Spurn Point, Linthwaite, nr. Huddersfield.

Lambeth.—Improvements and conversions to sundry acquired properties to provide 24 dwellings for MBC. ‡Building and General Services (Victoria) Ltd. £29,936 (fixed price tender).

Liverpool.—New wing at Home for Aged Jews, North Mossley Hill-rd. for Trustees. *Wm. Thornton & Sons, Ltd., 38 Wellington-rd., Liverpool.

¶London (Air Ministry).—New works contracts to value of £500 or over for week ended April 24: *Building work:* Llanbedr, Merionethshire, Pochin (Contractors), Ltd., King-st. Works, Middlewich, Ches.; Wethersfield, Essex, Walter Lawrence & Son, Ltd., Ventnor-hse., London-st., Swaffham, Norfolk. *Concrete constructional work:* Hemswell, Bardney, Caistor, etc., Norfolk, Cawood Wharton & Co., Ltd., Southlands, Harrogate, Yorks. *Artificers work:* Llanbedr, Merionethshire, Messrs. Martin-Evans, Cambrian-yard, Bridge-st., Wrexham, Denbighshire; Lyneham, Clyffe Pipard, and Wootton Bassett, Wilts, F. Rendell & Sons, Ltd., St. John-st., Devizes, Wilts. *Painting:* Felixstowe and Bawdsey, Suffolk, Fields, Ltd., 12 Kew-rd, Richmond, Surrey. *Replacement of boilers:* Hartlebury, Worcs., Truswell & Son, Ltd., Caloric Works, Newcastle, Staffs. *Electrical installations (internal wiring):* Lincolnshire area, Williams Bros. (Electrical), Ltd., 32A Temple-st., Wolverhampton.

London (British Railways).—Contracts let by London Midland Region:—E. B. Jones & Rawlinson, Ltd., Leaf-sq., Salford, 6, for alterations to platform buildings at Gatley and Mauldeth-rd. station.—Cubar Construction Co., Ltd., Victoria-bldgs., 32 Deansgate, Manchester, 3, for new shed over turntable roads at Crewe North motive power depot.—North Thames Gas Bd., 97-101 Seven Sisters-rd., N7, for renewal of gas mains at St. Pancras-chbrs.—Leonard Fairclough, Ltd., Adlington, Lancs., for bridge and tunnel alterations between Queen's-dr. and High-st. on Birmingham inner ring road.—W. R. Payne & Sons, Ltd., 147 Hamlet Court-rd., Westcliff-on-Sea, Essex, for cleaning and painting of Liverpool Central station roof.—Arthur Scull & Son, Ltd., Kingsway-hse., Kingsway, WC2, for renewal of condense mains and branches at Willesden carriage washing shed.—Octavius Atkinson & Sons, Ltd., Box 16, Starbeck, Harrogate, for structural steelwork at Cricklewood lightweight diesel shed.—General Asphalte Co., Ltd., Grafton-rd., NW5, for surfacing and drainage of coal bay stables at St. Pancras goods depot.—E. B. Jones & Rawlinson, Ltd., 6 Leaf-sq., Salford, 6, for remodelling of station buildings at Oxford-rd. station, Manchester.

London CC.—Adaptations to Mary Boon county sec. sch., Fulham. *E. J. Lacy & Co., Ltd., Willesden. £19,796.

London (London Transport).—Extensions to offices of Chief Mechanical Engineer (Railways), at Acton works. *Charles Booth & Son (Contractors), Ltd. £72,000.

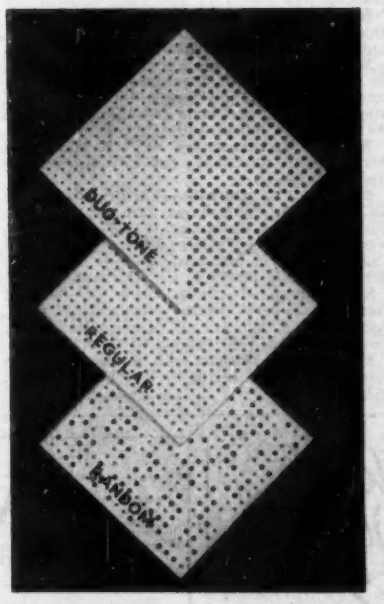
London (London Transport).—New central laboratory at Chiswick works. *Holland & Hannen and Cubitts (Gt. Britain), Ltd. £140,000.

¶London (Metropolitan Police).—Tenders for building works Ch.A&S: J. Innes Elliott (A).—External painting and repairs, St. Anne's-rd. police station and district garage and North London Magistrates' Court. Jas. Thomas & Sons, Ltd. £1,033.

London (Ministry of Transport and Civil Aviation).—Northern section, 12.8 miles long, of Doncaster by-pass. *Holland & Hannen and Cubitts (Great Britain), Ltd., Fitzpatrick & Son (Contractors), Ltd., and Lehane, Mackenzie & Shand, Ltd. (Consortium).—Southern section of Doncaster by-pass. *Sir Robert McAlpine & Sons, Ltd.—Blyth by-pass. *Sir Robert McAlpine & Sons, Ltd.

¶London (MoW).—Contracts placed for week ended April 17:—*Hertfordshire:* Building Research Station, Watford, erection of gate keeper's lodge, Vic Hallam (Contractors), Ltd., 30B Wimpole-st., W1. *London:* King Edward-bldgs., EC1, alterations in connection with renewal of lifts Nos. 3 and 4, Clemens Bros., Ltd., 77 Derby-rd., Forest Gate, E7; Southbridge-hse., Southwark Bridge-rd., SE1, occupational services, E. J. Lacy & Co., Ltd., Steele-rd., NW10; Northumberland-hse., Northumberland-ave., WC2, electrical services in Zone 'A,' Read & Ptnrs., Ltd., 28-32 Hatfields, Stamford-st., SE1; City Gate-hse., Finsbury-sq., EC, alterations and adaptations, Howe & White, Ltd., 35 Manor-rd., Wallington, Surrey. *Northumberland:* Ministry of Pensions and National Insurance, The Stadium, Wallsend, reconstruction of toilet accommodation, Castles (Whitley Bay), Ltd., 135 Tynemouth-rd., North Shields. *Perthshire:* Post Office, Canal-cres., Perth, erection of superstructure, Crudens, Ltd., Musselburgh, Midlothian. *Surrey:* Melon Yard, Royal Botanic Gardens, Kew, reconstruction of greenhouse No. 18F, Wm. Wood & Son, Ltd., Beechwood Works, Taplow, Bucks.; Royal Botanic Gardens, Kew, repairs of river bank, Ferry-la., W. J. Southgate, 65 Kenway-rd., Earls Court, SW5; Blue Ball-la., Egham, erection of telephone exchange, J. Burley & Sons, Ltd., Burley Corner, Weybridge. *Warwickshire:* Telephone-hse., Newhall-st., Birmingham, external decoration, Alfred Bagnall & Sons, Ltd., Navigation-st., Wolverhampton, Staffs. *Worcestershire:* Broadway, adaptations and alterations, F. Allard & Sons, Building Contractors, Worcester-rd., Evesham. *Yorkshire:* Post Office, Barr-st., Huddersfield, erection of three single unit garages, John Walker & Sons, Acre-st., Lindley, Huddersfield; Post Office and and Telephone Exchange, Commercial-st., Halifax, alterations and new cable trench, F. Whatmough & Son, Ltd., Moorfield-st., Halifax.

¶London (War Dept.).—Works contracts placed week ended April 17:—*Berkshire:* (Shrivenham), building, Clark Bros., Swindon. *Cheshire:* (Chester), hutting, J. W. Bostock, Ltd., Wrexham. *Hampshire:* (Longmoor), miscellaneous, E. J. Logan (Putney), Ltd., SW. *Middlesex:* (Feltham), painting and decorating, T. H. Kenyon & Sons, Ltd., W. *Somerset:* (Taunton), redecoration, P. J. Hartel (Southern), Ltd., Southampton. *Warwickshire:* (Warwick), demo-



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lition. J. H. Woodward (Contractors), Ltd., Leamington Spa. *Wiltshire:* (Larkhill), painting and decorating. Fields, Ltd., Reading. *Yorkshire:* (Catterick), miscellaneous, F. Shepherd & Son, Ltd., Richmond, Yorks.

Loughborough.—Fixed price tenders for new crematorium for BC. Boro' S. W. & H. Foulds, Ltd., £30,604; Chitham & Co., Ltd., £30,567; T. Barker & Sons, £29,885; Cawrey, Ltd., £29,830; A. A. Stuart & Sons, Ltd., £29,340; Clark & Garrett, Ltd., £29,275; Wm. Moss & Sons, Ltd., £29,184; W. A. Soars, Ltd., £28,990; F. Perks & Son, Ltd., £28,915; *F. R. Roper & Co., Byron-hse., Holmfield-ave., Loughborough. £27,846.

Luton.—Fixed price tenders for extensions to Challney CS boys' sch. for BC. Boro' A. *S. Gilbert, Ltd., 104 Ashcroft-rd., Luton. £7,454.

Manchester.—New sec. sch. at Walkden for RC Diocese of Salford. *G. & J. Seddon, Ltd., Little Hulton, nr. Bolton.

Manchester.—Works for City C (subject to MH&LG approval):—48 dwellings at Fairbourne-rd., Levenshulme. *F. Gannon & Son (Manchester), Ltd.—36 maisonettes at Churnet-st., Collyhurst. *Direct labour.

Middlesbrough.—RC church at Westbourne-gro. A: T. A. Crawford (L), 80 Borough-rd., Middlesbrough. *Frank Keelan, Ltd., 1 King-st., Thornaby-on-Tees.

New Windsor.—114 houses at Smith-la. site, Dedworth, for BC. Boro' E: G. S. Baker, MIMunE. QS: Henry Cooper & Sons, Slough. *Drabble Construction, Ltd., Vicarage-rd., Bletchley, Bucks. £219,900.

Newbury.—Nine aged persons' dwellings at Enborne-rd., Newbury, for BC. Boro' S: J. D. Knowles, AMICE. J. W. Palmer & Sons (Newbury), Ltd., £11,156; F. D. Carter & Ptnrs., Ltd., £9,894; Blakes (Beenham), Ltd., £9,619; Hoskings & Pond, Ltd., £9,200; *Cooke Bros., Ltd., 2 Parkway, Newbury. £8,999.

North Cotswold, Glos.—New repair shop, show rooms and offices at Bourton-on-the-Water for West Midland Farmers Assn., Ltd. A: Messrs. W. & E. Leah, Gloucester. *Ford & Weston, Ltd., Imperial-sq., Cheltenham. £16,000.

Orrell.—Fixed price tenders for 16 bungalows on Green Hey housing site at Kitt Green for UDC. E&S: E. S. Gilbert, AMIMunE. *W. Whitton, 1a Jaxons-chbrs, Hallgate, Wigan. £16,950.

Rugby.—24 flats and 6 maisonettes at Deepmore-rd. site for TC. *James Miller & Ptnrs. Ltd., Newmillerdam, Wakefield. £51,154.

St. Marylebone.—13 and 7-storey block of 75 flats at corner of Seymour-st. and Cumberland-pl., W1. A and Struct. Engrs.: Jenkins, Manning, Potter & Clamp (A), Great Turnstile, WC1. *Percy Bilton, Ltd., Park-st., W1.

Salford.—Modernisation of 118 houses on Barracks site, Regent-rd., for City C. ‡Direct labour. £72,657.

Shildon, Co. Durham.—Factory extensions for A. Morris Furnishings, Ltd. A: Cackett, Burns Dick & MacKellar (F), 21 Ellison-pl., Newcastle-on-Tyne. QS: Allen & Hill, 18 Tankerville-terr., Newcastle-on-Tyne. *C.T.C. (Builders), Ltd., Blackhill, Co. Durham.

Southampton.—16-storey block of flats at Northam re-development scheme for CBC. Boro' E: F. L. Woolridge. ‡George Wimpey & Co., Ltd. £154,945 (negotiated tender).

Stanley, Co. Durham.—40 houses at South Stanley for UDC. Plans by S. *Direct labour. £62,720.

Stockport.—New Church of St. Bernadette at Brinnington estate for RC Diocese of Shrewsbury. *Benjamin Smith, Ltd., 60 Cossack-st., Manchester.

Tynemouth.—Home for aged and infirm people for TC. Boro' E: D. M. O'Herlihy, 16 Northumberland-sq., North Shields. *Castles, Ltd., 135 Tynemouth-rd., Tynemouth. £68,596.

Uttoxeter.—92 houses and 12 garages for UDC. *Five Oaks Estates, Ltd., Wolverhampton. £147,803.

Watford.—Registrar, Youth Employment and Probation Office at Clarendon-rd., for Hertfordshire CC. County A. *E. S. Gates, Ltd., Amersham, Bucks. £32,000.

Wortley.—22 dwellings at Burncross housing site for RDC. E&S. *Bertram Illingworth, Niagara Works, Wadley Bridge, Sheffield, 6.

Wortley.—Fixed price tenders for 104 dwellings on Burncross-rd., Chapeltown, housing site for RDC. E&S. *Frank Haslam, Ltd., Doncaster.

Yeovil.—18 houses at Sunningdale estate for TC. *R. Shillabeer & Sons. £27,098 (subject to Ministry approval).

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OFFICIAL ANNOUNCEMENTS

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PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

CONTRACTS

BOROUGH OF EALING.

TENDERS invited on "Fixed Price" basis for the following contracts:

1. 64 Hanger-lane, Ealing, W.5: CONVERSION INTO 5 FLATS.
2. Lime Trees Estate, Northolt: ERECTION OF 34 FLATS IN 3 BLOCKS OF 2-STOREYS EACH.

Tender documents obtainable from Borough Surveyor, Town Hall, Ealing, W.5, upon payment of £5 for each tender, returnable on receipt of a bona fide tender.

R.I.B.A. Conditions of Contract apply.

Tenders must be delivered to the Town Clerk, Town Hall, Ealing, W.5, not later than noon on 21st MAY, 1959.

E. J. COPE-BROWN,
Town Clerk.

COUNTY BOROUGH OF ROTHERHAM.

CEMETERIES COMMITTEE.

CREMATORIUM,
EAST HERRINGTHORPE.

The Corporation invites applications from Building Contractors who wish to TENDER for the ERECTION OF A CREMATORIUM at East Herringthorpe Cemetery, Rotherham.

The buildings are of traditional construction and the Tender will not allow for any fluctuations in the rates for labour and materials during the course of the Contract.

Forms of Tender and Bills of Quantities will be forwarded as soon as possible after receipt of application which should be made to the Borough Engineer, Municipal Offices, Rotherham, not later than 10 a.m. FRIDAY, 8th MAY, 1959, accompanied by a deposit of five guineas, which will be refunded on receipt of a bona fide Tender.

The Corporation does not bind itself to accept the lowest or any Tender.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.
13th April, 1959.

LEEDS REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out ALTERATIONS TO SLUICES, ETC., at LYNFIELD MOUNT HOSPITAL, BRADFORD.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. 0d. (which will be refunded on receipt of a bona fide Tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on TUESDAY, 5th MAY, 1959. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the hospital or at the office of the Architect to the Board, Park-parade, Harrogate.

Bills of Quantities will be ready early in May and three weeks will be allowed for Tendering.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

COUNTY BOROUGH OF BOOTLE.

The Works Committee invite TENDERS for the supply and delivery of:—

(a) THREE CONCRETE MIXERS.
(b) ONE LOW-LOADING TRAILER.

Specification, General Conditions of Contract and Form of Tender may be obtained from the Borough Surveyor, Town Hall, Bootle, 20, Lancs, to whom they should be returned not later than 10 a.m. on FRIDAY, 8th MAY, 1959.

By Order,
HAROLD PARTINGTON,
Town Clerk.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

DYNEVOR COUNTY SECONDARY SCHOOL FOR BOYS.

HEATING, HOT AND COLD WATER SERVICES.

FIRMS wishing to TENDER for the HEATING, HOT AND COLD WATER SERVICES at the above School are invited to submit their application to the Borough Architect, The Guildhall, Swansea, on or before FRIDAY, 8th MAY, 1959.

Plans, Specifications and Conditions of Contract can be obtained on application and deposit of TWO POUNDS provided that the applicant gives satisfactory evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.
13th April, 1959.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

DYNEVOR COUNTY SECONDARY SCHOOL FOR BOYS.

ELECTRICAL INSTALLATION.

FIRMS wishing to TENDER for the ELECTRICAL INSTALLATION at the above School are invited to submit their application to the Borough Architect, The Guildhall, Swansea, on or before FRIDAY, 8th MAY, 1959.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of TWO POUNDS provided that the applicant gives satisfactory evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
13th April, 1959.

SCHOOL OF NAVIGATION, UNIVERSITY OF SOUTHAMPTON, WARSASH, SOUTHAMPTON.

TENDERS are invited for the ERECTION OF NEW DORMITORY AND COMMUNAL ACCOMMODATION for the School of Navigation. The Contract comprises the erection of a five- and a three-storey dormitory block of load-bearing brick construction with reinforced concrete floors and flat timber roofs, and a single storey communal block with reinforced concrete slabs and retaining walls, load-bearing brick and steel frame.

The estimated cost is £210,000.

Contractors wishing to Tender should apply at once to the Architects, Richard Sheppard, Robson and Partners of 5 Southampton-place, London, W.C.1 who will advise on the selection of a panel of not more than 10 firms to be asked to submit Tenders.

Contractors should supply details of work of a similar size and nature for which they have been responsible during the last three years.

COUNTY BOROUGH OF GREAT YARMOUTH.

RECONSTRUCTION OF THE TOLHOUSE.

FIXED PRICE TENDERS are invited for war damage reinstatement to the above comprising NEW TILED ROOF WITH OAK TRUSSES, INTERNAL FINISHINGS and sundry other works. Bills of Quantities and Form of Tender may be obtained from the Borough Engineer's office on or after 1st May, where drawings and conditions of contract may be inspected, upon payment of £2 2s. 0d. deposit returnable upon receipt of a bona fide tender not subsequently withdrawn.

Tenders in the envelope provided to be delivered to me not later than first post THURSDAY, 21st MAY, 1959. The Council does not bind itself to accept any tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS.

FIRM-PRICE TENDERS are invited for the ERECTION of a LIBRARY in School-road, Tilehurst, Reading. General conditions and drawings may be inspected and Bills of Quantities, etc., obtained from the Borough Architect, Town Hall, Reading, on application to him, accompanied by a cheque for £2 2s. 0d. (made payable to the Reading Corporation), which will be refunded on receipt of a bona fide tender not subsequently withdrawn. Tenders to Town Clerk, Town Hall, Reading, by noon, MONDAY, 1st JUNE, 1959. No tender considered unless enclosed in the endorsed envelope provided, which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

COUNTY BOROUGH OF SWANSEA.

TO BUILDERS.

TENDERS are invited for the ERECTION of 94 DWELLINGS distributed over seven Slum Clearance Sites within a radius of ½ mile in the Landore and Plasmarl Area.

Drawings of the Works and General Conditions of Contract may be inspected at the Office of the Borough Architect, The Guildhall, Swansea. Builders desiring to Tender must deposit the sum of TWO POUNDS with the Borough Architect on or before the 11th DAY OF MAY, 1959.

Bills of Quantities will be issued only to those builders who make the said deposit, which will be refunded after delivery of a bona fide Tender (not subsequently withdrawn) and the return of all documents.

Tenders must be delivered in exchange for a receipt or sent by registered post so as to reach me on or before the date stated in the Form of Tender and in accordance with the directions issued.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
16th April, 1959.

LEEDS REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out ALTERATIONS to the BOILER HOUSE, etc., at St. Johns Hospital, Goole.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board, at the undermentioned address not later than 12 noon on WEDNESDAY, 6th MAY, 1959. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of Messrs. Wheatley and Houldsworth, Chartered Architects, Saville-street, Hull.

Bills of Quantities will be ready on 20th MAY and approximately three weeks will be allowed for tendering.

The Board does not bind itself to accept the lowest or any tender.

Wm. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

EAST BARNET URBAN DISTRICT COUNCIL.

CONSTRUCTION OF HOUSES, BUNGALOWS, FLATS AND GARAGES.

CONTRACT No. 888.

FIXED PRICE TENDERS are invited for the ERECTION OF 65 DWELLINGS AND 8 GARAGES at Pine-road Development Area, N.11.

Forms of Tender, Bills of Quantities, etc., may be obtained from the Engineer and Surveyor, Town Hall, Station-road, New Barnet, Herts., on payment of a deposit of £2 2s. 0d., which will be refunded on receipt of a bona fide tender. Drawings are available for inspection at the Town Hall.

Tenders, sealed in the envelopes provided, must be received by not later than SATURDAY morning, the 6th JUNE, 1959.

The lowest or any tender will not necessarily be accepted.

URBAN DISTRICT COUNCIL OF FELTHAM.

GARDEN GARAGES.

TENDERS are invited for the SUPPLY and ERECTION of 19 INDIVIDUAL GARAGES, the excavation for, and the placing of concrete base and run-in to each garage.

Forms of Tender and Specification may be obtained from the Engineer and Surveyor's Department, Council Offices, Feltham.

Tenders in plain sealed envelopes endorsed "Tender for Garages" must be received by the undersigned not later than WEDNESDAY, 27th MAY, 1959. The Council do not bind themselves to accept the lowest or any Tender.

M. W. COUPE,
Clerk of the Council.

Council Offices,
Feltham, Middx.

CUCKFIELD RURAL DISTRICT COUNCIL.

CONSTRUCTION OF FOOTWAYS AND PREPARATION OF MARGINS AT HORSTED KEYNES.
CONTRACT No. 139.

TENDERS are invited for the CONSTRUCTION OF APPROXIMATELY 540 SQUARE YARDS OF TARMAC-ADAM FOOTWAY, 880 SQUARE YARDS OF MARGIN CULTIVATION and other incidental works at the above site.

Specification, Bills of Quantities and Form of Tender can be obtained from Mr. A. Hutchings, M.B.E., M.I.Mun.E., Engineer and Surveyor, on payment of a deposit of £2 2s. 0d. Deposits will be returned upon receipt of a bona fide tender and the return of all contract documents.

Tenders accompanied by all necessary documents, enclosed in a plain envelope, sealed and endorsed "Tender for Footways at Horsted Keynes," should be addressed and delivered to the undersigned not later than noon on MONDAY, 18th MAY, 1959.

The Council do not bind themselves to accept the lowest or any tender.

J. A. CHURCHILL,
Clerk of the Council.

Rural Council Offices,
Boltro-road,
Haywards Heath,
Sussex.

COUNTY BOROUGH OF READING

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for the ALTERATION to the LAVATORIES at Groveland Primary School, Reading. General Conditions may be inspected and tender form, specification and drawings obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by 12 noon, 27th MAY, 1959. No tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

NORTH RIDING EDUCATION COMMITTEE.

NOTICE TO BUILDERS AND CONTRACTORS.

Bills of Quantities, etc. for ALTERATIONS and EXTENSIONS to Northallerton Grammar School, obtainable from me or Architects, J. Leathart & Son., 49 Welbeck-street, London, W.1. Plans may be seen at the County Hall, Northallerton. Completed tenders in official envelope must arrive not later than WEDNESDAY, 3rd JUNE, with postmark not later than 2nd JUNE, 1959. Envelope must be sealed and have no mark indicating tenderer. Lowest or any tender not necessarily accepted. F. Barraclough, County Hall, Northallerton.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION of a HOME FOR AGED PERSONS at Hessle, near Hull.

Application for Bills of Quantities should be made to the County Architect, County Hall, Beverley, and should be accompanied by a deposit of £2. Cheques to be made payable to the County Treasurer.

No tender will be considered unless received by the undersigned not later than 4 p.m. on MONDAY, 15th JUNE, 1959, in a plain sealed envelope supplied by the Council, endorsed "Tender: Erection of Home for Aged Persons at Hessle," and which shall not bear any name or mark indicating the sender.

THOMAS STEPHENSON,
Clerk of the Council.

BOROUGH OF RHONDDA.

ERECTION OF 147 DWELLINGS AT THE REAR OF EDWARD-STREET AND WOOD-STREET, MAERDY.

Contractors desirous of TENDERING for the ERECTION OF DWELLINGS on the above site are invited to submit applications for the necessary documents to Mr. C. Gingell, A.R.I.B.A., A.R.I.C.S., Borough Housing Architect, 13 Ystrad-road, Pentre, Rhondda, accompanied by a deposit of three guineas (£3 3s. 0d.) made payable to the "Rhondda Borough Council" which will be returned on receipt of a bona fide Tender.

The scheme is divided into two groups of 86 and 61 dwellings respectively and Contractors may Tender for either one or both groups.

Tenders sealed in the envelope provided must be returned to the undersigned on or before NOON on TUESDAY, 19th MAY, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

E. D. WILDE,
Town Clerk.

Municipal Offices,
Pentre,
Rhondda.

BOROUGH OF CHELMSFORD.

BLOCK OF 27 FLATS, BRADFORD-STREET, CHELMSFORD.

TENDERS are invited for the ERECTION of this BLOCK OF ONE-BEDROOM FLATS (Architect: A. R. Dannatt & Son).

Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Municipal Offices, Coval-lane, Chelmsford, on payment of a deposit of two guineas, which sum will be refunded on receipt of a bona fide tender not subsequently withdrawn and the return of all documents supplied. Cheques should be made payable to the Chelmsford Corporation.

Applications for documents should be submitted by 11th MAY. The documents will be sent out on 15th MAY, and the closing date will be noon on 15th JUNE. The Corporation do not bind themselves to accept the lowest or any tender.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Chelmsford.

WEDNESFIELD URBAN DISTRICT COUNCIL.

ASHMORE PARK HOUSING ESTATE.

4 SHOPS AND FLATS OVER AND 9 GARAGES.

The Council invite TENDERS from experienced contractors for the ERECTION of 4 SHOPS WITH 4 FLATS OVER and 9 GARAGES, together with ancillary works of traditional construction on the above housing estate.

Application for Bills of Quantities and Form of Tender should be made to the Council's Engineer and Surveyor, Thos. A. Peacock, M.I.Mun.E., 29 Bolton-road, Wednesfield, not later than 1st MAY, 1959. A deposit of £2 2s., payable to Wednesfield Urban District Council, which will be returned on receipt of a bona fide tender must be enclosed.

The Council do not bind themselves to accept the lowest or any tender.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

LINDSEY COUNTY COUNCIL.

FIXED PRICE TENDERS are invited for the ERECTION OF 1ST INSTALMENT OF A NEW COUNTY PRIMARY SCHOOL at Alford. The works are to be in traditional construction containing approximately 3,200 square feet of floor area and comprise Assembly Hall, Classroom and Cloaks. Bills of Quantities can be obtained from A. Ronald Cole, A.R.I.B.A., A.M.T.P.I., County Architect, County Offices, Lincoln, who must receive tenders by 10 a.m. on THURSDAY, 28th MAY, 1959.

County Offices,
Lincoln.

CITY OF PLYMOUTH.

Tenders are invited as follows:—

WOLSELEY HOME, FORD, PLYMOUTH.

(a) From HEATING ENGINEERS for the INSTALLATION of NEW OIL-FIRED BOILER PLANT.

(b) From BUILDING CONTRACTORS for the ERECTION of a 45 ft. high BRICK CHIMNEY.

Applications to tender, accompanied by a deposit of Three Guineas for each scheme made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Specifications, Drawings and Forms of Tender may be obtained.

No application received after the 4th MAY, 1959, will be considered.

Deposits will be refunded on receipt of bona fide tenders not subsequently withdrawn.

COUNTY BOROUGH OF READING

TO BUILDERS AND PAINTING CONTRACTORS.

FIRM PRICE TENDERS are invited for the INTERNAL REDECORATION of parts of Reading School. General Conditions may be inspected and specifications, etc., obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by 12 noon, WEDNESDAY, 27th MAY, 1959. No tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

BOROUGH OF REIGATE.

36 FLATS, OUTBUILDINGS AND GARAGE, THE DOME ESTATE, REDHILL.

FIXED PRICE TENDERS are invited for 6 BLOCKS OF SIX THREE-STOREY FLATS, OUTBUILDINGS, AND 15 GARAGES, based upon Bills of Quantities for substructure and site works, subject to remeasurement as work proceeds, and upon lump sum for the superstructure of the flats based upon Tender, Specification, Bills of Quantities and Plans, obtainable from the Borough Engineer and Surveyor, Town Hall, Reigate, on payment of a deposit of £2 2s., refunded upon the submission of a bona fide Tender, or the return of all Plans and Documents.

Sealed Tenders, in the envelope provided and endorsed "Tender for 36 Flats, The Dome Estate, Redhill," must be returned to the undersigned not later than noon on FRIDAY, 22nd MAY, 1959.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
April, 1959.

BOROUGH OF WEMBLEY.

CONVERSION OF TOWN HALL BOILERS TO OIL FIRING.

TENDERS, which must be received not later than noon on 1st JUNE, 1959, are invited for the above work which comprises removal of automatic stokers and provision of oil storage tanks and oil burners to 4 (No.) Boilers and all ancillary fittings.

Form of Tender and Specification may be obtained from the Borough Engineer and Surveyor, Town Hall, Wembley, at whose office Conditions of Contract and drawings may be inspected.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 629
36 THREE-STOREY FLATS, BORDESLEY GREEN EAST (NEAR STUARTS ROAD).

The House Building Committee invite FIRM PRICE TENDERS for the ERECTION of the above.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 6th MAY, 1959. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposit will be returned on receipt of a bona fide tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's office (Room No. B.31), Council House, Birmingham, 1, NOT LATER THAN 12 NOON on FRIDAY, the 5th JUNE, 1959. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

J. F. GREGG,
Town Clerk.

The Council House,
Birmingham, 1.

COUNTY BOROUGH OF ROCHDALE.

TENDERS are invited for the HEATING INSTALLATION at Heybrook Schools, Rochdale.

Particulars may be obtained from the Borough Surveyor.

Tenders to the Town Clerk, Town Hall, Rochdale, by 25th MAY, 1959.

DURHAM COUNTY COUNCIL.

TENDERS invited:—

Eaglescliffe New Modern School: SUPPLY AND ERECTION OF STRUCTURAL STEELWORK.

Application for further details to County Architect, South-street, Durham, not later than 13th MAY, 1959.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

COUNTY BOROUGH OF CROYDON.

NOTICE TO BUILDERS.

If Government approval is given, the Corporation propose to build a Fire Station at New Addington. Meantime, contractors with the organisation and labour force to carry out the work expeditiously wishing to tender for a Two-bay Fire Station should send their names at once to the Borough Engineer, Town Hall, Croydon, for Bills of Quantities.

E. TABERNER,
Town Clerk.

BUCKS COUNTY COUNCIL.

Applications are invited from contractors wishing to TENDER for the following building projects:—

1. Aylesbury: ERECTION OF NEW FIRE BRIGADE WORKSHOPS; estimated cost in the region of £11,000.
2. Burnham: ERECTION OF A NEW GRAMMAR SCHOOL; estimated cost in the region of £150,000.
3. Little Chalfont: ERECTION OF A NEW COUNTY PRIMARY SCHOOL; estimated cost in the region of £45,000.
4. Buckingham: ERECTION OF A NEW MAGISTRATES COURT; estimated cost in the region of £7,000.
5. Ley Hill County Primary School: ERECTION OF ADDITIONAL ACCOMMODATION; estimated cost in the region of £9,000.
6. Stone C.E. Primary School: ERECTION OF CLASSROOM in permanent construction; estimated cost in the region of £3,500.
7. Stony Stratford Magistrates Court: ALTERATIONS AND REFURBISHING; estimated cost in the region of £700.
8. Lower Winchendon C.E. Primary School: IMPROVEMENTS TO SANITARY ACCOMMODATION AND WATER SUPPLY; estimated cost in the region of £950.

Bills of Quantities or Specifications and Forms of Tender will be available on or before the 15th JUNE, 1959, and are to be returned by 10 a.m. on 6th JULY, 1959.

Contractors are asked to make application to the County Architect, County Offices, Aylesbury, indicating for which works they wish to tender not later than 23rd MAY, 1959, enclosing a deposit of £3 3s. for each contract, which will be returned on receipt of a bona fide tender not subsequently withdrawn, or in such other circumstances as the Council may approve.

The Council do not bind themselves to accept the lowest or any tenders.

EAST GRINSTEAD URBAN DISTRICT COUNCIL.

HOUSING.

TENDERS on a fixed price contract are invited for the DEMOLITION of EXISTING COTTAGES and the ERECTION of TWO BLOCKS OF TWO-STOREY FLATS OF EIGHT DWELLING UNITS EACH at Imberhorne-lane, East Grinstead.

General Conditions of Contract and Drawings may be inspected on application to, and Specification Bills of Quantities and Form of Tender obtained from, Mr. B. J. Cornelius, F.R.I.C.S., Surveyor to the Council, at the address hereunder upon payment of Three Guineas, refundable upon receipt of a bona fide tender and the return of the whole of the documents.

Tenders in sealed envelopes bearing no name or mark indicating the sender and endorsed — "IMBERHORNE - LANE HOUSING"—must reach the undersigned by not later than Noon on SATURDAY, 23rd MAY, 1959.

The Council does not bind itself to accept the lowest or any tender.

H. C. JONES,
Clerk of the Council.

East Court,
East Grinstead,
Sussex.

AXMINSTER RURAL DISTRICT COUNCIL.

MILLWEY RISE HOUSING ESTATE, AXMINSTER.

TENDERS are invited for the ERECTION of 42 DWELLINGS on the above Estate comprising:—

19 THREE-BEDROOMED HOUSES.
2 FOUR-BEDROOMED HOUSES.
17 TWO-BEDROOMED HOUSES.
4 TWO-BEDROOMED BUNGALOWS.

Tenders may be submitted for the whole scheme, or for Contracts of 22 dwellings and 20 dwellings.

Drawings, Specifications and full particulars may be obtained from Mr. Fredk. S. Kett, Chartered Architect, Axminster, upon payment of a deposit of £3 3s (returnable), to whom application must be made not later than the 9th MAY, 1959, when date for submission of tenders to the undersigned will be given.

The Council does not bind itself to accept the lowest or any tender.

E. G. KIRBY,
Clerk of the Council.

Council Offices,
Oak House,
Axminster,
Devon.
22nd April, 1959.

COUNTY BOROUGH OF BOURNEMOUTH.

WEST HOWE ESTATE—
CONTRACT W.H.64
(R.I.B.A. Form of Contract).

Tenders are invited for the following sub-contract works:—

METAL WINDOWS.
W.I. BALUSTRADING
ELECTRICAL INSTALLATION

Firms wishing to tender should send their applications, before 8th MAY, 1959, to the Borough Architect, Town Hall, Bournemouth.

A. LINDSAY CLEGG,
Town Clerk.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPROVED LIST OF CONTRACTORS.

The County Council have approved lists of Contractors for Building, Electrical, Heating and Maintenance work.

Contractors desirous of being added to one or more of these lists should write for forms of application to The County Architect, Green Hall, Lichfield-road, Stafford, not later than the 16th MAY, 1959.

Contractors already on the approved lists do NOT have to make further application.

T. H. EVANS,
Clerk of the County Council.

BOROUGH OF LUTON.

FIXED PRICE TENDERS invited for the SUPPLY AND ERECTION OF 40 PREFABRICATED CONCRETE GARAGES, Birdsfoot-lane, Runfold Estate. Documents from Borough Architect, Town Hall, Luton. Tenders to Town Clerk by NOON on WEDNESDAY, 20th MAY, 1959.

LEYLAND URBAN DISTRICT COUNCIL.

CONTRACT NO. 28—30 PRECAST CONCRETE GARAGES, WADE HALL ESTATE, LEYLAND.

The Council invite TENDERS from registered contractors for the above-mentioned contract, which is to be Tendered for on a Fixed Price Basis.

Copies of the plans, specifications, and forms of Tender, together with conditions of contract, may be obtained from the office of Mr. F. D. Howe, M.I.Mun.E., Engineer and Surveyor, Council Offices, Leyland, on application on or after Monday, the 27th April, 1959; this application to be accompanied by the deposit of two guineas, which will be returned on receipt of a bona fide Tender, and the return of all the documents.

Tenders on the forms provided, in a plain sealed envelope appropriately endorsed "Tender for 30 Garages" bearing no mark or indication of the sender must reach the undersigned not later than NOON, the 18th MAY, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

W. C. F. GODSELL,
Clerk of the Council.

Council Offices,
Leyland, Lancs.
April, 1959.

REDDITCH URBAN DISTRICT COUNCIL.

WEBHEATH ESTATE.

ERECTION OF HOUSES FOR SALE.

1. All-in FIXED PRICE TENDERS are invited from building contractors for the ERECTION of 50 LOW COST HOUSES with all incidental works including roads and sewers on the Council's Webheath Estate. Such houses are to be built for sale by the Council and to be of two- and three-bedroomed semi-detached types and two-bedroomed bungalow types, all with garage space. The dwellings are to be to the design of the Tenderer. The Tender should be accompanied by detailed plans and layout of the different types of dwellings and a complete specification of the works and particulars of the proposed siting of the dwellings.

2. A plan showing the site of the proposed houses and a draft estate road layout together with existing roads and sewers and other detailed information including road specifications, can be obtained from the Engineer and Surveyor to the Council, The Council House, Redditch, upon payment of £1 1s.

3. If this scheme is successful the Tenderer may be invited to submit proposals for the development of a further portion of this estate (upon which it is hoped, ultimately, to erect some 400 houses for sale).

4. The successful Tenderer will be required to enter into a contract in the standard R.I.B.A. Form with modifications.

5. The Council does not bind itself to accept the lowest, or any Tender, nor does it accept any responsibility whatsoever for the cost of the preparation of plans or other documents by Tenderers in connection with this advertisement.

6. Tenders, in plain sealed envelopes endorsed "Tender — Webheath Estate" should be sent to the undersigned so as to reach me by not later than first post on TUESDAY, 30th JUNE, 1959.

W. IRVING WATKINS,
Clerk of the Council.

BOROUGH OF SLOUGH.

TENDERS are invited for the ERECTION OF PUBLIC CONVENIENCES, Bowyer Playing Fields, St. Pauls-avenue, Slough.

Specifications, Forms of Tender and Drawings may be obtained from the Borough Engineer, Town Hall, Slough, on payment of 2 guineas, which will be returned after receipt of a bona fide tender *and* the return of all contract documents. Tenders, in the envelopes provided, must be delivered to the Town Clerk, Town Hall, Slough, Bucks., not later than noon on MONDAY, 25th MAY, 1959. The Council do not bind themselves to accept the lowest or any tender.

BOROUGH OF MAIDSTONE.

BUILDING CONTRACTS.

Notice is hereby given that following representations to the Maidstone Borough Council from the Maidstone and District Local Joint Apprenticeship Committee for the Building Industry it has been decided by the Council that, after the expiration of six months from the date of this notice no TENDER of over £1,000 for building work will be accepted by them unless the Tenderer certifies that he has in his employment at the date of his Tender apprentices and skilled craftsmen in the following ratio :—

Up to 15 skilled craftsmen—one apprentice.

More than 15 but not more than 25 skilled craftsmen—two apprentices.

More than 25 but not more than 35 skilled craftsmen—three apprentices and so on in proportion :

(except that if the Tenderer can produce a certificate from the Youth Employment Officer that candidates for apprenticeship have not been available or can satisfy the Council that after making reasonable endeavour he is employing as many apprentices as he is able to indenture, this shall not apply).

T. SCHOLES,
Town Clerk.

15th April, 1959.

BOROUGH OF ILFORD.

MODERNISATION OF PRE-WAR COUNCIL HOUSES.

CONTRACT "K"
LEY-STREET ESTATE.

TENDERS are invited for the final stage of a scheme to modernise pre-war Council houses. The works consist of the renewal of kitchen floors, internal plumbing, immersion heaters and fireplace surrounds to approximately 35 dwellings on Ley-street Estate, Ilford.

Forms of Tender, Drawings and Bills of Quantities may be obtained from the Borough Engineer, Town Hall, Ilford, upon payment of a deposit of two guineas, which will be returned on receipt of a bona fide tender, not subsequently withdrawn. Conditions of Contract may be inspected at the Borough Engineer's office during normal working hours. Tenders in plain sealed envelopes bearing no name or mark indicating the sender and endorsed "Tender for Modernisation Contract "K,"" must be received by the Town Clerk not later than 4 p.m. on the 27th MAY, 1959.

BOROUGH OF ILFORD.

ERECTION OF FOUR AGRICULTURAL WORKERS' COTTAGES.

ALDBOROUGH HOUSE/
HATCH FARM, ILFORD.

TENDERS are invited for the ERECTION of FOUR AGRICULTURAL WORKERS' COTTAGES, Aldborough House/Hatch Farm, Ilford.

Applications in writing for the Form of Tender, Bills of Quantities and Drawings, which will be sent out on 6th MAY, 1959, should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's office during normal working hours.

Tenders in plain sealed envelopes bearing no name or mark indicating the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on WEDNESDAY, 27th MAY, 1959. Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

COUNTY COUNCIL OF ESSEX.

HEALTH SERVICES CLINIC,
GRANLEIGH-ROAD, LEYTON.

EXTENSIONS.

Contractors wishing to submit a FIRM PRICE TENDER for the above work should forward their names, from which a panel will be chosen and provided with Bills of Quantities.

The work will consist of extensions in traditional construction, estimated cost £3,700.

Applications should reach the undersigned not later than 9th MAY, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

COUNTY BOROUGH OF SOUTHPORT.

The Council invite TENDERS for PAINTING THE EXTERIORS OF HOUSES on the Housing Estates. The work is divided into 14 contracts. Contractors may Tender for any number of contracts.

The Specification can be obtained from the Borough Architect and Town Planning Officer's Department, 99-105 Lord-street, on payment of One Guinea which sum will be refunded on receipt of a bona fide Tender.

Tenders are to be delivered to the undersigned by 22nd MAY, 1959.

R. EDGAR PERRINS,
Town Clerk.

BOROUGH OF SLOUGH.

PERMANENT HOUSING.

TENDERS are invited for each of the following schemes :—

(1) Oatlands-drive/Waterbeach-road (3 sites)—ERECTION OF 30 AGED PERSONS' BUNGALOWS and 4 FLATS.

(2) Wexham Lodge—ERECTION OF 2 AGRICULTURAL WORKERS' COTTAGES.

(3) Wood-lane—ERECTION OF 4 HOUSES.

Contractors who wish to tender for each or any of the three schemes should, not later than noon on the 15th MAY, 1959, apply to the Borough Engineer, Town Hall, Slough, Bucks., for Form of Tender, Bills of Quantities, and closing date for tendering.

Applications must be accompanied by a deposit of 2 guineas for *each* scheme, which will be refunded on receipt of a bona fide tender *and* the return of the contract documents. Bills of Quantities will be sent to applicants during the week commencing 25th MAY, 1959. The Council do not bind themselves to accept the lowest or any tender.

COUNTY COUNCIL OF ESSEX.

(1) New Thundersley County Primary School : ADDITIONAL CLASSROOMS.

(2) White Notley C. of E. Primary School : ADDITIONAL CLASSROOM.

(3) HORNCHURCH WHYBRIDGE BRANCH LIBRARY and FURTHER EDUCATION CENTRE.

Contractors wishing to TENDER for the ERECTION of the above should forward their names, from which panels will be chosen and provided with Bills of Quantities.

(1) A FIRM PRICE TENDER for the CONSTRUCTION of FOUNDATIONS, PLUMBING, DRAINAGE, FINISHINGS, EXTERNAL WORKS, etc. The buildings will be of sectional wooden construction and will be supplied and erected by a nominated sub-contractor within the contract. The value of the whole contract is £4,250.

(2) A FIRM PRICE TENDER for the ERECTION of an ADDITIONAL CLASSROOM IN TRADITIONAL CONSTRUCTION, estimated cost £3,250.

(3) In load bearing brickwork, TIMBER ROOFS AND LIGHT STEEL TRUSSES, estimated cost £20,000.

Separate applications for each contract to reach the undersigned not later than 9th MAY, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

CITY OF PORTSMOUTH.

TENDERS, based on Bills of Quantities, are invited for :—

(a) 13 FLATS, St. Mary's-road.

(b) 9 FLATS, High-street, Old Portsmouth.

(c) 3 FLATS, Victoria-road South.

Contractors desirous of Tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, not later than the 11th May, 1959, stating in which Contract(s) they are interested, and enclosing a deposit of £1 for each Contract, returnable on receipt of bona fide Tender(s) or the return of all the documents within three days.

The Council do not bind themselves to accept the lowest or any Tender. It is a condition of Tendering that the Contractor shall at the date of his Tender, have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

METROPOLITAN BOROUGH OF WANDSWORTH.

HOUSES AT CLAPHAM.

Contractors wishing to TENDER for ERECTION of FOUR HOUSES at Stonehouse-street should submit names to me by WEDNESDAY, 13th MAY, 1959, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at office of Borough Engineer and Architect, Municipal Buildings, S.W.18.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

CITY OF OXFORD.

PROPOSED NEW BUILDING.

The Council intends to undertake the following housing work, all in traditional construction:—

A. A DETACHED 3-BEDROOM HOUSE WITH GARAGE at Eden-drive, Headington.

B. 44 MAISONETTES IN THREE 4-STOREY BLOCKS WITH ANCILLARY WORKS, at Barns-road, Cowley.

C. 12 OLD PEOPLE'S FLATS IN A 2-STOREY BLOCK WITH ANCILLARY WORKS, at Barns-road, Cowley.

D. 28 MAISONETTES IN TWO 4-STOREY BLOCKS WITH ANCILLARY WORKS, at North Oxford 'B' Estate, near Elsfield-way.

E. 40 3-BEDROOM HOUSES IN PAIRS WITH GARAGES, off Harberton-road, Marston.

F. A SMALL EXTENSION TO THE CHILDREN'S HOME, Windmill-road, Headington.

Each contract will be on a firm price basis, and tender documents for most of the work will be available by mid-June.

Contractors wishing to tender for any of this work should submit their names to the City Architect and Planning Officer, Town Hall, Oxford, before 6th MAY, stating which contracts they are interested in.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

COUNTY BOROUGH OF HALIFAX.

EDUCATION COMMITTEE.

OVENDEN SECONDARY MODERN SCHOOL.

Building Contractors wishing to submit a TENDER for the ERECTION of a TEACHING BLOCK OF TWO CLASSROOMS, BOILER HOUSE, TOILETS, etc., in the grounds of the above school, are asked to submit their names to the Borough Engineer, Crossley-street, Halifax, together with a deposit of £2. Cheques should be made payable to Halifax Corporation. Bills of Quantities, Specifications and Forms of Tender will be sent to applicants in due course, and the drawings can be inspected at the office of the Borough Engineer during normal working hours. The deposit will be returned on receipt of a bona fide fixed price tender.

The last day for submitting names is 4th MAY and tenders must be received by the Town Clerk by 25th MAY, 1959.

RICHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

LEEDS REGIONAL HOSPITAL BOARD.

TO HEATING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out ALTERATIONS TO THE HEATING AND HOT WATER SERVICES at Lynfield Mount Hospital, Bradford.

Applications for Form of Tender and Specification and Drawings accompanied by a deposit of £2 2s. 0d. (which will be refunded on receipt of a bona-fide Tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on Wednesday, 13th May, 1959. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board or at the Hospital.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 NOON on TUESDAY, 9th JUNE, 1959.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

PUBLIC APPOINTMENTS

BOROUGH OF ENFIELD.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for established posts within the Grades shown :—

(a) ARCHITECTURAL ASSISTANT, A.P.T. I and II (£575-£845 per annum).

(b) ARCHITECTURAL ASSISTANT (MAINTENANCE), A.P.T. I (£575-£725 per annum).

A London Weighting allowance of £10-£30 per annum, according to age, will be paid in addition to the above salaries. The commencing salary will be in accordance with qualifications and experience.

Saturday mornings are normally free of duty.

Application forms, returnable by the 13th MAY, 1959, to be obtained from H. Deryck Peake, M.Sc. (Eng.), M.I.C.E., Borough Engineer and Surveyor, "Percy House," 7 Little Parkgardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN, LL.B.,
Town Clerk.

Public Offices,
Enfield,
Middx.

LONDON COUNTY COUNCIL.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, Grade III (up to £1,090), (scales at present under review) in :—

(a) STRUCTURAL ENGINEERING DIVISION—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings; and

(b) DISTRICT SURVEYORS' SERVICE—In districts coinciding with one exception, with Metropolitan Borough Boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/45/59, County Hall, S.E.1. (925.)

BOROUGH OF MIDDLETON.

APPOINTMENT OF SENIOR CLERK OF WORKS.

Applications are invited from qualified persons for the above appointment at a salary within A.P.T. II, £725 to £845 p.a. or as CLERK OF WORKS at a salary within Miscellaneous Grade V, £625 to £685.

The successful applicant will be required to supervise the erection of houses on Corporation Estates and the appointment will be permanent, subject to Local Government Superannuation Scheme, and one month's notice on either side.

Applications suitably endorsed, stating age, experience and qualifications, together with names of two referees to be delivered to the undersigned not later than Noon on WEDNESDAY, 6th MAY, 1959.

Canvassing, directly or indirectly, will be a disqualification.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
Nr. Manchester.
15th April, 1959.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, GRADE III (up to £1,090) required in:—

(A) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings, and

(B) DISTRICT SURVEYORS' SERVICE. In districts coinciding with one exception with Metropolitan Borough boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work. Application form and particulars from the Architect to the Council, County Hall, S.E.1, quoting AR/EK/15/59. (257.)

EXETER CITY COUNCIL.

Applications are invited for the following appointments :—

(a) JUNIOR ARCHITECTURAL ASSISTANT. Salary within A.P.T. Grade I (£575 to £725 per annum). Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects.

(b) ARCHITECTURAL DRAUGHTSMAN. Salary within Miscellaneous Divisions 4-5 (£565 to £685 per annum).

The appointments which are on the temporary staff are subject to one month's notice on either side and to the passing of a medical examination.

Canvassing will disqualify.

Applications in writing, stating age, experience, qualifications and appointments held should reach the City Architect, Municipal Offices, Exeter, not later than the 7th MAY, 1959.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Vacancies exist for SENIOR ASSISTANT ARCHITECTS. Salary A.P.T. Grade IV, £1,025 x £50 to £1,175 per annum (under review). Applicants must be fully qualified. National Joint Council Conditions of Service. Pensionable post. Canvassing disqualifies. Application forms from the County Architect, County Offices, Matlock, to be returned by 20th MAY, 1959.

METROPOLITAN BOROUGH OF HOLBORN.

BOROUGH ARCHITECT'S DEPARTMENT.

BUILDING SURVEYOR. Required. Salary Grade A.P.T. IV, £1,025-£1,175, plus London Weighting (£30 at age 26). Applicants should be A.R.I.C.S. Inspection of properties for adaptation and conversion, repair and maintenance, sketches, specification, estimates. Capable of negotiating with other surveyors and supervision of work. Applications stating age, qualifications and experience with the names of three referees to Town Clerk, Town Hall, High Holborn, W.C.1.

LONDON COUNTY COUNCIL.

QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR.

An examination for certificates of proficiency to perform the duties of district surveyor will be conducted in London in the week commencing 12th October, 1959. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as DISTRICT SURVEYOR (salary scales £1,650 to £2,750 a year) or as ASSISTANT DISTRICT SURVEYOR (salary scale £1,245 to £1,482 10s. a year, plus allowance £59 a year).

Apply to the Architect to the Council (AR/ED/RWF), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. (657.)

COUNTY BOROUGH OF BURY.

Applications invited for position of ARCHITECTURAL ASSISTANT, Special Grade (£750-£1,030). Commencing salary according to qualifications and experience.

Applications stating age, details of training, qualifications, present and previous appointments and experience, together with names and addresses of two referees, must reach me by 18th MAY, 1959.

EDWARD S. SMITH.
Town Clerk.

Town Hall,
Bury.

CITY OF LIVERPOOL.

ASSISTANT (PURCHASING)—HARDWARE AND IRONMONGERY.

Applications are invited from persons with buying experience, particularly in the purchase of builders' sundries, either with a local authority or similar body, or with a large commercial firm or similar undertaking, for the above appointment in the Central Purchasing Section of the Town Clerk's Department. Salary £765-£880 per annum (A.P.T. II).

Application forms (returnable by 14th MAY) and further particulars obtainable from the undersigned.

The appointment is superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
Town Clerk.

Municipal Buildings,
Liverpool, 3.
(J.5636.)

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for the following post:—

ASSISTANT BUILDING SURVEYOR.

Applicants must be Associate members of the R.I.C.S. and capable of preparing working drawings and specifications for alteration works, site surveying and levelling, etc.

Salary scale: £730 x £25(2) x £30(2) x £35(3) x £40(1)-£1,055 plus £20-£50 London Weighting.

Apply stating age, qualifications (with dates) and experience together with the names and addresses of two referees to:—Secretary, North West Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, London, W.2, by 13th MAY, quoting reference 723.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYORS. Vacancies exist for Quantity Surveyors, salary A.P.T. Grade IV, £1,025 x £50 to £1,175 per annum (under review). Applicants must be Associates of the Royal Institution of Chartered Surveyors. National Joint Council Conditions of Service. Pensionable posts. Canvassing disqualifies. Application forms from the County Architect, County Offices, Matlock, to whom they should be returned by 20th MAY, 1959.

BOROUGH OF WALTHAMSTOW.

ASSISTANT ARCHITECT.

Applications are invited for the above appointment in the Borough Architect, Engineer and Surveyor's Department (F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Borough Architect, Engineer and Surveyor) at a salary in accordance with Grade III, A.P.T. Division (£845-£1,025, exclusive of London Weighting) with the commencing salary according to qualifications and experience.

Applicants must be Registered Architects and have had experience of housing schemes.

Applications, stating age, qualifications, experience and present occupation, together with the names of two referees, one of whom should be the present or former employer, are to be received by the undersigned not later than noon, on FRIDAY, 15th MAY, 1959, endorsed "Assistant Architect."

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
20th April, 1959.

CITY OF MANCHESTER HOUSING DEPARTMENT.

DEPUTY CHIEF ASSISTANT ARCHITECT.

Applications invited for the above APPOINTMENT from Qualified Architects, preferably with experience in the design and construction of all classes of Municipal Housing development, including multi-storey flats.

The appointment will be in accordance with J.N.C. Scale "A" (£1,220-£1,390).

Housing accommodation may be available.

Forms of application from the Director of Housing, Town Hall, Manchester, 2, returnable by 1st JUNE, 1959.

SOUTHAMPTON COUNTY BOROUGH COUNCIL requires

under N.J.C. conditions of service:

ASSISTANT QUANTITY SURVEYOR. Salary within Special Grade (£750/£1,030 p.a.).

Applicants must be Chartered Quantity Surveyors, preferably with experience in municipal housing including multi-storey flats and shopping centres.

Apply on application form obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, as soon as possible.

GLENROTHES DEVELOPMENT CORPORATION.

CONSTRUCTION PROGRESS OFFICER.

Applications are invited for a new appointment as CONSTRUCTION PROGRESS OFFICER on the staff of the Chief Architect and Planning Officer. Candidates must have held executive position in a large contracting business or hold professional qualifications coupled with supervisory experience. Extensive practical experience in the control and organisation of large-scale building works carried out by contract and knowledge of the operation of a large architectural office are essential. Experience of a small Direct Labour and Stores Organisation connected with building operations would be advantageous. Salary Grade £1,226-£1,545 per annum with placing according to qualifications and experience. House to rent available. Medical examination under Superannuation Scheme. Particulars of duties and application forms obtainable from Secretary and Legal Adviser, Glenrothes Development Corporation, Glenrothes, Fife, to be returned by 16th MAY, 1959.

CITY OF SHEFFIELD EDUCATION COMMITTEE.

COLLEGE OF TECHNOLOGY. DEPARTMENT OF BUILDING.

Applications are invited for the following additional posts, which result from the development of full-time and sandwich courses in Building, Civil Engineering and Quantity Surveying:—

(a) LECTURER IN MUNICIPAL ENGINEERING AND/OR LAND SURVEYING to be responsible for organisation and teaching of Surveying in Building and Civil Engineering sandwich courses and the full-time course in Quantity Surveying. Candidates should hold appropriate professional qualifications, with suitable industrial experience.

(b) LECTURER IN MATHEMATICS to be responsible for organisation and teaching of Mathematics within the Department, particularly in Civil Engineering and Building sandwich courses and other professional courses. Candidates should hold graduate or equivalent qualifications, with suitable teaching experience.

(c) LECTURER IN BUILDING SCIENCE AND MATERIALS to be responsible for organisation and teaching of Building Science in the Building sandwich course, the full-time courses in Quantity Surveying, and National Certificate courses. Candidates should hold suitable qualifications, with industrial and/or teaching experience.

SALARY SCALE FOR ABOVE POSTS: £1,200 x £30-£1,350 per annum, plus 5 per cent.

Duties to commence on 1st SEPTEMBER, 1959.

Application Forms, obtainable with further particulars from the undersigned (s.a.e.) at P.O. Box 67 Leopold-street, Sheffield, 1, should be returned within 14 days of the appearance of this advertisement.

T. H. TUNN,
Director of Education.

SHEFFIELD REGIONAL HOSPITAL BOARD.

Applications are invited for the post of ASSISTANT ARCHITECT on the Board's Architectural Staff. Candidates must be Registered Architects and have passed the requisite examinations. Salary according to age and experience within the scale £730-£1,055 per annum. Appointment is subject to Whitley Council terms and conditions of service, to the National Health Service (Superannuation) Regulations, and to one month's notice on either side. Applications, together with the names of three referees, should be sent to the Secretary, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-road, Sheffield, 10, not later than the 15th MAY, 1959.

LANCASHIRE COUNTY COUNCIL.

Applications are invited for the posts of SENIOR ARCHITECTS, Senior Officers Scale "A," £1,225-£1,390.

Applicants should possess a keen design sense, and a sound working knowledge of modern techniques in building construction.

Successful applicants will be required to work at all stages in the drawing office, and the site supervision of major building projects.

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 4th MAY, 1959, quoting reference A/TB.

METROPOLITAN BOROUGH OF HOLBORN.

BOROUGH ARCHITECT'S DEPARTMENT.

ASSISTANT CLERK OF WORKS Required for 10 and 14-storey flats. Salary £750-£850 according to experience and qualifications. Applications with names of three referees to Town Clerk, Town Hall, High Holborn, W.C.1.

COUNTY BOROUGH OF CROYDON.

HOUSING MANAGEMENT DEPARTMENT.

BUILDING MAINTENANCE SECTION.

Applications are invited for the appointment of STOREKEEPER from persons with a thorough knowledge of building trade materials, plant and tools, and the practical experience and training of a Storekeeper.

Salary commencing, according to experience, between £610 p.a. to £680 p.a. rising to £745 p.a.

Application forms from the Housing Manager, 71 Park-lane, Croydon.

Closing date 18th MAY, 1959.

E. TABERNER,
Town Clerk.

MIDDLESEX COUNTY COUNCIL.

EDUCATION COMMITTEE.

TOTTENHAM TECHNICAL COLLEGE, High-road, Tottenham, N.15.

Applications to be included on a panel of PART-TIME LECTURERS are invited from suitably qualified and experienced persons prepared to teach in the Department of Technology in either day or evening classes (in courses for Ordinary and Higher National Certificates) in General Building, Quantity Surveying, and Structural Engineering, courses for Public Health Inspectors and craft courses in various building trades.

Application forms (stamped addressed foolscap envelope) from the Principal, to whom they should be returned as soon as possible.

C. E. GURR, M.Sc., Ph.D.,
Secretary to the Education Committee.

BOROUGH OF BRIDGWATER.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above appointment in the Borough Architect's Department, at a salary in accordance with A.P.T. Grade II (£765-£880 p.a.) of the National Scale of Salaries.

Applicants should be experienced in taking-off and preparing Bills of Quantities, measuring works in progress and preparing interim certificates and settlement of Final Accounts in connection therewith.

The appointment will be subject to the National Conditions of Service, the Local Government Superannuation Acts, a satisfactory medical examination, and termination by one month's notice on either side.

Applications, stating age, experience and qualifications and accompanied by copies of three recent testimonials, are to be delivered to the Borough Architect, Town Hall, Bridgwater, not later than MONDAY, 18th MAY, 1959.

(Signed) H. A. CLIDERO,
Town Clerk.

Town Hall,
Bridgwater.
24th April, 1959.

LANCASHIRE COUNTY COUNCIL.

Applications are invited for the post of PRINCIPAL ASSISTANT COUNTY ARCHITECT, Senior Officers Scale I, £2,325-£2,610.

The successful applicant will be required to collaborate with the Architect and his staff principals, and will be mainly concerned with the standards of Architectural Design—the co-ordination of the work of Technical Staff Groups within the Department, on a varied and large scale building programme, and overall responsibility for contract progress on site.

Administrative work will be connected with the purely technical aspect as distinct from Local Government Administration of Procedures.

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 4th MAY, 1959, quoting reference A/TB.

BERKSHIRE COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT, A.P.T. GRADE II, £765-£880.

Preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A.

Application forms and further particulars can be obtained from J. T. Castle, A.R.I.B.A., A.M.T.P.I., County Architect, Wilton House, Parkside-road, Reading, to whom they should be returned not later than TUESDAY, 12th MAY, 1959.

COUNTY BOROUGH OF BARNSLEY.

APPOINTMENT OF BUILDING MANAGER.

Applications are invited for the appointment of Building Manager, at a salary in accordance with Grade V of the National Scheme of Conditions of Service, i.e. £1,220 rising by £55 and £50 p.a. to £1,375 per annum.

The appointment will be subject to (a) the National Scheme of Conditions of Service and such general conditions of employment as may be in force within the Corporation from time to time; (b) the Local Government Superannuation Acts, for which purpose the successful applicant will be required to pass a medical examination, and (c) to one month's notice on either side. A car allowance will be paid within the essential user's category of the Scheme of Conditions of Service, and 50 per cent of approved removal (transport only) expenses will also be paid.

The Building Department is a separate Department employing approximately 400 workmen. The work of the Department includes the maintenance of all Corporation properties and new construction including houses, schools and other works.

Candidates must have good organising ability and experience in all sections of the building industry, preferably with a Municipality and must be able to prepare competitive estimates. The purchasing of materials, costing, and office work generally are carried out by the Department, and applicants should have adequate experience in the control of this work.

Applicants should have experience in the organisation and supervision of operatives, and the control of costs against tenders, and should have appropriate technical and/or managerial qualifications.

Applications giving full particulars of experience, qualifications and age, together with names of three referees should reach the Town Clerk, Town Hall, Barnsley, in sealed envelope marked "Appointment of Building Manager," not later than 25th MAY, 1959.

Canvassing will disqualify.

A. E. GILFILLAN,
Town Clerk.

Town Clerk's Office,
Barnsley.
28th April, 1959.

CITY OF SHEFFIELD.

Applications are invited for the following posts on the staff of the Estates Surveyor, Mr. W. H. Rothwell, B.Sc., F.R.I.C.S.:—

PROPERTY ASSISTANT (REPAIRS). Grade S.C. (£750-£1,030, under review).

Qualification: A.R.I.C.S. (Building) or equivalent.

Applicants must have had wide experience in the maintenance of urban properties of all classes, particularly of repairs, conversions and demolition. Experience of a House Patching Scheme is desirable.

PROPERTY ASSISTANT, Grade II (£765-£880).

Qualification: R.I.C.S. (Intermediate) or equivalent.

Applicants should be widely experienced in the letting and management of urban properties of all classes.

PROPERTY ASSISTANT (REPAIRS). Grade I (£610-£765).

Applicants should be experienced in the maintenance of urban properties of all classes, particularly of repairs, conversions and demolitions and/or should have passed the Intermediate R.I.C.S. (Building) or its equivalent.

The posts are superannuable, subject to N.J.C. conditions of service and to medical examination.

Applications stating post applied for, name, address, age, qualifications, experience, previous and present positions with dates and salaries and the names and addresses of two referees should reach the undersigned not later than 18th MAY, 1959.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

BUILDING SURVEYORS.

Vacancies in Building Regulation Division and District Surveyors' Service for work in connection with applications under London Building Acts, and by-laws. District Surveyors' offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress. Up to £860 with starting rates according to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, L.C.C. (AR/EK/28/59), County Hall, S.E.1. (541.)

CITY OF STOKE-ON TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS, Special Scale £750-£1,030.

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. III £845-£1,025.

(c) ARCHITECTURAL ASSISTANT, A.P.T. I £575-£725.

(d) JUNIOR DRAUGHTSMAN, Higher Gen. Div. £230-£960.

Applications, stating which post applied for, and giving full details of qualifications, training and experience, etc., to J. R. Piggott, T.D., F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, by FRIDAY, 8th MAY, 1959.

GOVERNMENT OF NORTHERN IRELAND.

QUANTITY SURVEYOR.

Applications invited from Corporate Members of the Royal Institution of Chartered Surveyors (Quantities) for unestablished post in Chief Quantity Surveyor's Branch, Ministry of Finance. Candidates should have several years' experience, particularly in "taking-off" for large building works, since obtaining their professional qualifications. Salary scale £1,210-£1,550. Prospects of establishment. Preference for ex-Servicemen.

Application forms obtainable from Director of Establishments, Room 271, Stormont, Belfast, to be completed and returned by 20th MAY, 1959.

GUILDFORD GODALMING AND DISTRICT WATER BOARD.

CAPITAL WORKS SECTION.

ASSISTANT CLERK OF WORKS.

Applications are invited for the above appointment in the Chief Engineer's Department.

Candidates should have had experience in the supervision of main-laying contracts, and experience on contracts for reservoir construction would be an advantage.

The post is temporary and non-established and in the first instance for a period of approximately 12 months with the possibility of extension to other contracts, subject to satisfactory service.

Conditions relating to the appointment may be obtained from the Chief Engineer, "Branksome," Filmer Grove, Godalming, Surrey.

The Board cannot at present provide housing accommodation, but a grant of 50 per cent. will be paid towards the cost of removal expenses.

The salary will be within Grade Misc. IV (£590-3 x £20-£650 per annum).

Applications, together with the names of three persons to whom reference may be made, must reach the undersigned not later than 12 noon on TUESDAY, the 19th MAY, 1959.

H. C. WELLER,
Clerk to the Board.

Municipal Offices,
High-street,
Guildford,
Surrey.

COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications invited for established post of ADMINISTRATIVE ASSISTANT (Male), A.P.T. Grade I, £610-£765 p.a., and London Allowance. Commencing salary according to experience and qualifications. Applicants will be attached to Town Planning Section of the Department, and should be shorthand typists.

Application form from Borough Architect and Planning Officer, 70 West Hamlane, Stratford, E.15, returnable by 12th MAY, 1959.

AIR MINISTRY WORKS

Design Branch requires in London, CIVIL ENGINEERING DESIGNER DRAUGHTSMAN experienced in one or more of the following branches of engineering: (a) Earthworks and Stormwater Drainage; (b) Foul drainage and small disposal works; (c) Water pumping and distribution. Salaries up to £1,055 p.a. Starting pay dependent on age, quals. and exp. Long term possibilities with promotion and pensionable prospects. Five-day week, three weeks' three days' leave a year. Liability for overseas service. Normally natural born British subject.

Write stating age, quals., employment details including type of work done, to any employment exchange quoting Order No. Borough 252.

QUANTITY SURVEYING

ASSISTANTS required by Air Ministry in the Provinces. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary according to age, qualifications and experience. Salary ranges from £680 at age 26 rising to £850. Candidates must hold O.N.C. (Building or Builders' Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Approved full time study will count towards period of experience. Promotion and pensionable prospects. 5-day week, 3 weeks' leave a year. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write stating age, qualifications and previous appointments including type of work done, to Manager, Professional and Executive Register, Ministry of Labour and National Service, Atlantic House, Farringdon-street, London, E.C.4, quoting reference PE105/745. No original testimonials should be sent. Only applicants selected for interview will be advised.

AIR MINISTRY WORKS

Design Branch requires in London and Provinces ARCHITECTURAL ASSISTANTS, experienced in planning, preparation of working drawings and details for permanent and semi-permanent buildings. Salaries in LONDON, up to £1,055 p.a. for men and £1,008 p.a. for women. Somewhat lower in Provinces. Starting pay dependent on age, qualifications and experience. Long-term possibilities with promotion and pensionable prospects. Five-day week, 3 weeks' 3 days' leave a year. Liability for overseas service (for men). Normally natural born British subjects.—Write stating age, qualifications, employment details including type of work done to any Employment Exchange quoting Order No. Borough 250.

CUMBERNAULD DEVELOPMENT CORPORATION.

CHIEF ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

A vacancy exists for a PUBLIC UTILITIES LIAISON OFFICER, preferably over age 35; salary scale £753-£1,029 per annum with starting salary according to experience. The successful applicant will be required to act as Liaison Officer between the Corporation's technical staff and the various Statutory Public Authorities. The duties of the post will be concerned in particular with relating the provision and installation of services to the Corporation's programme of development. No professional qualifications are required but a technical background is essential. Special consideration will be given to ex-Service applicants with the appropriate experience.

Local Government Superannuation (subject to medical examination); assistance with housing may be given; 5-day week.

Write to the General Manager, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, by Glasgow, for application form, to be returned by 18th MAY, 1959.

HOLLAND COUNTY

COUNCIL invite applications for the appointment of:—

ARCHITECTURAL ASSISTANT, Special Grade, £750-£1,030 p.a. or Grade III, £845-£1,025 p.a. (according to qualifications and experience).

The Council have a varied and interesting programme and the successful applicant will be required to work within a "Group" system, where enthusiasm, initiative and contemporary outlook are appreciated.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the N.J.C. Scheme of Conditions of Service and a medical examination.

The County Council would consider making a contribution towards the cost of removals.

Forms obtainable from the County Architect, should be returned to the Clerk of the County Council, County Hall, Boston, Lincs, by 9th MAY, 1959.

CITY ARCHITECT'S

OFFICE, Manchester. Application invited for appointments on the permanent staff of (A) ASSISTANT ARCHITECT/ARCHITECTURAL ASSISTANT, Salary Special Scale at present £750/£1,030 is under review. Commencing salary will be fixed according to qualifications and experience; and (B) ARCHITECTURAL ASSISTANT, Salary A.P.T. I £610/£765. Five-day week. Removal expenses allowed. Housing accommodation for a limited period may be provided for the successful candidate for the senior appointment. Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable 11th MAY, 1959.

BUILDING SURVEYORS

and ASSISTANTS required for preparation of estimates, specifications and supervision of works of maintenance and minor alterations at residential establishments. Ability to prepare drawings an advantage. Up to £1,090 and £860 according to qualifications and experience. Application form from Chief Engineer (59/32), London County Council, County Hall, S.E.1. (830.)

QUANTITY SURVEYOR

required to work on cost analysis, cost planning, and cost control, as a member of a housing research team, in the Department of Architecture of the University of Edinburgh under Professor Robert Matthew. Familiarity with elemental bills and a keen interest in research essential. Salary £1,350 per annum. The project will last five years and will include two live building programmes. Applications should be made to the Secretary to the University, University of Edinburgh, Old College, South Bridge, Edinburgh.

LONDON COUNTY COUNCIL.

TECHNICAL ASSISTANTS required in Quantities Division for (a) measuring variations on small buildings, landscape and site works and preparation and settlement of final accounts; knowledge of approximate estimating an advantage. (b) Working-up and site measurement under supervision. Up to £860 a year, commencing according to qualifications and experience. Apply to Chief Officer, Parks Department (AI/E), County Hall, London, S.E.1. (WATerloo 5000 Ext. 8076.) (850.)

LONDON COUNTY COUNCIL.

South East London Technical College, Lewisham Way, S.E.4. HEAD OF BUILDING DEPARTMENT, Grade II, required soon as possible to take charge of building department in modern premises in Lower Sydenham branch of College.

Burnham (F.E.) Salary scale, £1,470 x £52 10s. to £1,680. London allowance £37 10s. or £50 8s. Application forms from Secretary at College to be returned soon as possible. (677.)

DEVON COUNTY

COUNCIL require AREA BUILDING SURVEYOR for Mid-Devon area centred on Bovey Tracey. Salary A.P.T. II (£765-£880) plus travelling and subsistence allowances.

Particulars and Application Form, returnable by 11th MAY, 1959, from County Architect, 97 Heavitree-road, Exeter.

LONDON COUNTY COUNCIL.

HOUSING MANAGEMENT DEPARTMENT—WORKS DIVISION.

MAINTENANCE SURVEYOR required. Experience essential in maintenance of houses and flats, estimating for repairs, preparation of dilapidation schedules and reports. Up to £860 according to experience and qualifications. Apply by letter, stating age, qualifications and brief details of experience, to Director of Housing, HM/G/W.12, County Hall, S.E.1. (878.)

GENERAL FOREMAN

required by Camberwell Borough Council to take charge of two adjacent sites with a total of 66 flats in three-storey blocks and ancillary buildings. Applicants must have extensive experience in flats construction. Write giving full details of age, trade and recent contracts and names of two referees to Town Clerk, Town Hall, S.E.5. Salary up to £1,000 p.a. according to experience.

FLINTSHIRE COUNTY COUNCIL.

Applications are invited for an ASSISTANT ARCHITECT. Candidates must be Associates of the R.I.B.A. and have had substantial experience in an Architect's office since passing the Final Examination and be conversant with the design of schools. Salary special scale £750-£1,030 per annum. Form of application from Clerk of County Council, County Buildings (P.O. Box No. 1), Mold. Closing date 11th MAY, 1959.

CITY OF BELFAST.

Applications are invited for the following positions in the Education Architect's Department:—

ARCHITECT, CLASS I.

Applicants must be registered and qualified by examination and should be capable of supervising architectural staff. Preference given to those with experience in modern school designing and construction.

Salary: £970 x £40—£1,250 per annum.

TECHNICAL ASSISTANT, CLASS I (ARCHITECTURAL).

Applicants should be experienced architectural assistants, capable of carrying out the drawings, specifications and supervision necessary for alterations to existing buildings and new minor works.

Applications will only be considered from persons, who although not possessing a recognised architectural qualification, can show that they have reached a high standard of architectural and constructional ability and with a special aptitude for this type of work.

Salary: £610 x 2/25 x 30 x 25 x 30 x 3/25—£820 x 20—£840.

Commencing salary according to ability and experience. Superannuation contributions of approx. 6 per cent. of remuneration payable. Reciprocal pension arrangements exist between the Corporation and certain Public Authorities.

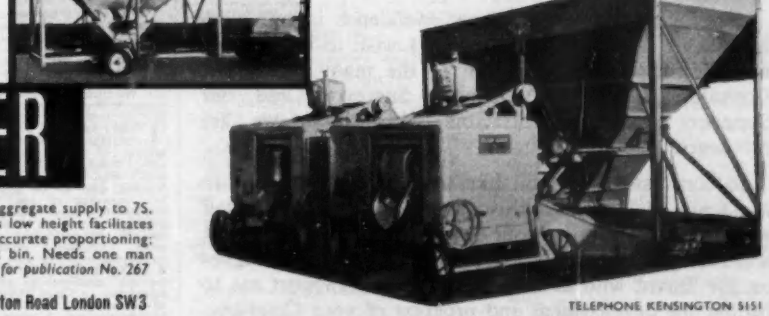
Canvassing will disqualify.

Application forms, etc., obtainable from Education Offices, 40 Academy-street. Completed applications must reach the undersigned by THURSDAY, 14th MAY, 1959.

JOHN DUNLOP,
Town Clerk.

City Hall, Belfast.
P.O. Box 234.
22nd April, 1959.

Better proportioned and cheaper concrete



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The fully-mobile **BATCHMASTER** will maintain aggregate supply to 7S, 10S, 12S or 14S Mixers working singly or in pairs. Its low height facilitates loading by tractor shovel; hydraulic weighing assures accurate proportioning; and units can be supplied with built-in bulk cement bin. Needs one man only to maintain maximum output from mixers. *Write for publication No. 267*

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COMPANY MEETING

MYTON LIMITED

FURTHER NEW CONTRACTS

The Twenty-Fourth Annual General Meeting of Myton Limited will be held on May 27 at Winchester House, Old Broad Street, London, E.C.2.

The following review by Mr. John Hanson, the Chairman, has been circulated to Shareholders with the Directors' Report and Accounts for 1958.

I have to report that the profit of your Company and its wholly owned subsidiary for the year ended 31st December, 1958, was £60,049, compared with £58,045 in respect of the previous year which, under existing conditions I considered not unsatisfactory.

During the year, the office buildings, which I mentioned last year as being under construction in the City and Greater London, have now been completed, but we are continuing to assist in the re-development of London and are now actively engaged on further new contracts for other new office blocks mainly in the London Area.

In the North-East of England and the Midlands we are continuing our efforts in developing housing estates on our own account in addition to housing developments and flats for local authorities in other parts of the country.

The volume of work at present on hand exceeds that at the beginning of 1958. In this connection, although the lowering of the Bank Rate and the easing of the credit squeeze has helped us to extend our activities, competition in the building industry is still very keen, and continuous efforts must be made to improve our present level of profit.

Mr. G. E. North was appointed a Director of your Company on 1st January, 1959, in recognition of the valuable services he has rendered the Company over the past few years, and I am pleased to have him as a colleague on the Board.

Employers continue to show confidence in our work by placing contracts with us, and I wish to thank them and also express appreciation to the many Architects, Consulting Engineers, Quantity Surveyors and our Suppliers and Sub-Contractors with whom we are privileged to work.

In conclusion, I would like to express my thanks to our team of loyal and trustworthy executives and staff without whose support your Company could not operate, and finally, may I say how grateful I am to my colleagues on the Board who at all times help and support me to further the development and progress of your Company.

ASSISTANT MAINTENANCE SURVEYOR Required by POPLAR BOROUGH COUNCIL. Permanent post. Salary A.P.T. I (£610-£765, plus "weighting"). Commencing salary according to qualifications and experience. Application forms from the Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3. Closing date 16th MAY, 1959.

ENGINEERING ASSISTANT Required by POPLAR BOROUGH COUNCIL. Permanent post. Salary on special Grade £750-£1,030, plus "weighting," now under review. Commencing salary according to qualifications and experience. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3. Closing date 16th MAY, 1959.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

OFFICE OF THE COUNTY ARCHITECT.

The Council require SENIOR ARCHITECTS in salary grades A.P.T. IV (£1,025-£1,175) and Special Grade (£750-£1,030) for their extensive and interesting building programme which includes schools, colleges, old people's and children's homes, clinics, ambulance, fire and police stations, and other public buildings. Architects appointed will be employed at the Central Office in Wakefield solely upon capital works and will be expected to handle building projects from sketch plans to completion.

Applications are also invited for the undermentioned posts at the Central Office.

HEATING ENGINEERS.

(a) SENIOR ASSISTANT HEATING ENGINEERS, Grade A.P.T. V, £1,175-£1,325.

(b) SENIOR ASSISTANT HEATING ENGINEERS, Grade A.P.T. IV, £1,025-£1,175.

(c) ASSISTANT HEATING ENGINEERS, Special Grade, £750-£1,030.

Applicants for the senior posts must be, and for the other preferably should be, Associate Members of the Institution of Heating and Ventilating Engineers, and be capable of designing and detailing heating, hot water and ventilation installations.

QUANTITY SURVEYORS.

(a) SENIOR ASSISTANT QUANTITY SURVEYORS, J.N.C. Scale "A," £1,170-£1,390.

(b) SENIOR ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. V, £1,175-£1,325.

(c) SENIOR ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. IV, £1,025-£1,175

Applicants for post (a) should be Associate Members of the Royal Institution of Chartered Surveyors, and candidates for all the posts should have had experience in the preparation of Bills of Quantities and measuring for and adjustment of final accounts.

(d) ASSISTANT QUANTITY SURVEYORS, Special Grade, £750-£1,030.

SURVEYORS (Sites).

JUNIOR SURVEYING ASSISTANT, Grade A.P.T. I, £575-£725.

Applicants should have good experience in surveying, levelling and plotting sites and should be neat draughtsmen. Experience in surveying buildings would be an advantage.

ELECTRICAL ENGINEER.

ASSISTANT ELECTRICAL ENGINEER, Grade A.P.T. II, £725-£845.

Applicants should hold the Higher National Certificate in Electrical Engineering and be capable of preparing schemes, specifications and estimates.

Applications are also invited for the undermentioned posts at DIVISIONAL OFFICES.

HARROGATE DIVISIONAL OFFICE.

ARCHITECTS.

(a) ASSISTANT ARCHITECT, Special Grade, £750-£1,030.

(b) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £575-£725.

Applicants for (a) should have experience in the maintenance of buildings and of works of minor adaptations and improvements.

DONCASTER DIVISIONAL OFFICE (ADWICK-LE-STREET).

JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £575-£725.

Applications to be submitted by the 19th MAY, 1959, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.,
County Architect.

"Bishopgarth,"
Westfield-road,
Wakefield.

TEMPORARY ASSISTANT MAINTENANCE SURVEYORS required by Ministry of Works in Glasgow, Leeds or Manchester. National salary scale £805 (at age 25)-£1,260 p.a. Starting pay up to £1,095 p.a. (at age 34) according to age. Five-day week, twenty-two days' annual leave. Prospects of promotion and eventual opportunities of permanent and pensionable posts. Applicants must be Registered Architects or Corporate Members of the R.I.C.S. (Building Section). Apply stating age, qualifications and full details of experience to Chief Maintenance Surveyor (Recruitment), M.O.W., Stanley House, Marsham-street, London, S.W.1.

LONDON COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

Applications invited from corporate members of R.I.C.S. for post of LECTURER to teach Building Construction, Surveying and Levelling and subsidiary subjects for professional examinations. Recent experience of Town and Country Planning and Valuation and Teaching experience an advantage.

Salary scale: £1,260 x £31 10s. to £1,417 10s. plus London allowance of £37 16s. or £50 8s.

Application forms from Secretary at College, Lime-grove, London, W.12, to be returned by 9th MAY, 1959. (889.)

THE UNIVERSITY OF SHEFFIELD.

Applications are invited from suitably qualified persons for the position of ADMINISTRATIVE ASSISTANT in the Planning Office of the Bursar's Department. Duties mainly to assist in administrative work in connection with planning progress and control of new building projects. Applicants need not possess technical qualifications but should be familiar with building work, contract procedure and costing. Experience of Committee work desirable. Salary in the scale £650 x £50—£850, with Children's Allowances and F.S.S.U. benefits. Further information and forms of application may be obtained from the Bursar, The University, Western Bank, Sheffield 10. Applications should be sent within 10 DAYS from the date of this advertisement.

WELSH COLLEGE OF ADVANCED TECHNOLOGY.

WELSH SCHOOL OF ARCHITECTURE. (Associated with the University of Wales).

Applications are invited for three posts:—

(a) READER (b) SENIOR LECTURER AND STUDIO INSTRUCTOR; (c) ASSISTANT LECTURER (Grade B) AND STUDIO INSTRUCTOR.

The Reader will be expected to engage in research relating to modern building organisation and to establish courses arising from this research work.

The Senior Lecturer will be responsible for part of the advanced work in Design and Construction for the Degree and Diploma courses.

The Assistant Lecturer will be required to assist with the general teaching duties of the Department. Candidates should have been trained in a "recognised" School of Architecture, be Associates of the R.I.B.A. and have had approximately three years' post-academic practical professional experience.

Salaries will be in accordance with the Burnham Scales, as follows:—

Reader: £1,627 10s. to £1,890 p.a.

Senior Lecturer £1,417 10s. to £1,627 10s. p.a.

Assistant Lecturer: £682 10s. to £1,076 5s. p.a.

In the case of the Assistant Lecturer additional allowances are payable for a degree, training, etc.

In all cases research and consultative work will be encouraged and industrial or research experience is regarded as of importance where applicable.

Further particulars and forms of application are obtainable from the Principal, at the College, Cathays-park, Cardiff, to whom they should be returned as soon as possible.

ROBERT E. PRESSWOOD,
Clerk to the Governing Body.
Cardiff, City Hall.

CWMBRAN DEVELOPMENT CORPORATION.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

A QUANTITY SURVEYOR is required for varied and interesting work in connection with the development of Cwmbran New Town, on the Salary Scale £934-£1,146, the point of entry being in accordance with qualifications and experience.

Candidates should be experienced in taking-off, billing and abstracting, site measurements, valuation of work and the preparation of final accounts.

The post is superannuable and housing accommodation will be made available in suitable cases.

Applications stating age, experience, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by first post on MONDAY, 11th MAY, 1959.

J. C. P. WEST, A.R.I.B.A., M.T.P.I.,
Chief Architect.

Victoria-street,
Cwmbran,
Mon.

BOROUGH OF HORNSEY.

TWO TEMPORARY ARCHITECTURAL ASSISTANTS Required for the Architects' Section of the Borough Engineer and Surveyor's Department. Grades A.P.T. I and II. Salaries (new scales) £610-£765 and £765-£880, plus London Weighting. Commencing salary according to experience.

Application form from Borough Engineer and Surveyor, Town Hall, Crouch End, London, N.8, to be returned by WEDNESDAY, 20th MAY, 1959.

H. BEDALE,
Town Clerk.

LONDON COUNTY COUNCIL.

CLERKS OF WORKS required to supervise painting and cleaning contracts at schools for 12 week period from 6th July, 1959; £14 9s. a week. Application form, returnable by 20th MAY, from Architect to Council, AR/EK/38/59, County Hall, London, S.E.1. (926.)

BOROUGH OF BEWDLEY.

CLERK OF WORKS.

CLERK OF WORKS required for housing scheme, 57 dwellings (36 houses and 21 bungalows). The appointment will be temporary for about fifteen months, subject to one month's notice on either side. Salary according to qualifications and experience up to a maximum of £15 per week.

Applications stating age, qualifications, previous experience and when able to commence duty, together with names of two persons to whom reference can be made, should be sent to the undersigned by not later than SATURDAY, 9th MAY, 1959.

WINSTON O. E. BRYAN,
Town Clerk.

Municipal Offices,
Bewdley.

DEPARTMENT OF HEALTH FOR SCOTLAND.

CLERK OF WORKS.

The Architectural Division which covers building works at Scottish Prisons, Borstal Institutions and State managed hotels throughout Scotland, has vacancy in Edinburgh for a CLERK OF WORKS—BUILDING (non-pensionable post). Salary range £875-£1,035. Write Establishment Officer, Department of Health for Scotland, Room 30, St. Andrew's House, Edinburgh, 1, for application form. Closing date FRIDAY, 15th MAY, 1959.

CORPORATION OF THE CITY OF GLASGOW.

HOUSING AND WORKS DEPARTMENT.

APPOINTMENT OF SUPERINTENDENT OF NEW WORKS (BUILDINGS).

Applications are invited for appointment to the above post, which falls vacant in JUNE, 1959. Salary scale £1,185 x £42 to £1,395, with placing according to experience. The post is superannuable, subject to the applicant's passing a medical examination.

The New Works Section is responsible, under the supervision of the Manager of the Housing and Works Department, for the construction of between 2,000 and 3,000 houses annually. Applicants should be experienced in the direction of large-scale housing projects and experience of multi-storey construction will be an advantage.

Applications, stating age and giving particulars of qualifications and experience and the names and addresses of three referees, should be received by me not later than 30th MAY, 1959.

WILLIAM KERR,
Town Clerk.

City Chambers,
Glasgow.

LINDSEY (LINCOLNSHIRE) COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Large and interesting programme of work requires the following on the permanent staff:—

(a) ONE SENIOR QUANTITY SURVEYOR, A.P.T. 4, £1,025-£1,175. Should be A.R.I.C.S.

(b) ONE ENGINEERING ASSISTANT (ELECTRICAL), A.P.T. II, £725-£845. Should have Section A or Joint Part I I.E.E. and capable of preparing drawings for electrical installations in buildings.

(c) ONE BUILDING INSPECTOR ASSISTANT (MAINTENANCE), A.P.T. I, £575-£725. Should be capable of preparing drawings and specifications for small works of alterations and additions.

Salary at starting point within the grade dependent upon qualifications and experience; N.J.C. Conditions of Service. Canvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Council.

Applications stating post applied for and salary required, giving age, qualifications, experience, present post and salary, and the names of at least two persons to whom reference can be made to be sent not later than 8th MAY, 1959, to the County Architect, County Offices, Lincoln.

BIRMINGHAM REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS required, £1,050 to £1,245 per annum. Applicants must be registered architects having passed the requisite examinations. Experience of hospital planning and construction an advantage. Ability to control drawing-office staff essential. Superannuable. Apply giving details of training, present appointment and previous experience and naming three referees, to Secretary, 10 Augustus-road, Birmingham 15, by 11th MAY.

COUNTY BOROUGH OF WARRINGTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the undermentioned permanent appointments:—

(1) HIGHWAYS ASSISTANT, Within Special Scale (£750 rising to £1,030 per annum), with Car Allowance.

(2) ENGINEERING ASSISTANT, Within Special Scale (£750 rising to £1,030 per annum).

(3) PRINCIPAL ARCHITECTURAL ASSISTANT, Within Grade IV (£1,025 rising to £1,175 per annum).

(4) ARCHITECTURAL ASSISTANT, Within Grade II (£725 rising to £845 per annum).

Candidates for Appointments (1) and (2) must be Associate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, for Appointment (3) an Associate of the Royal Institute of British Architects, and for Appointment (4) have passed the Intermediate Examination.

Applicants for the position of Highways Assistant should have had considerable experience in road and sewer maintenance and construction.

Housing Accommodation will be made available, if required, in respect of appointments (1), (2) and (3).

The appointments, which are terminable by one month's notice on either side are subject to the conditions of service of the National Joint Council for Local Authorities Administrative, Professional, Technical and Clerical Services and the provisions of the Local Government Officers' Superannuation Act, 1937, the successful candidates (if new entrants to the Council's Service) being required to pass a medical examination.

The canvassing of members of the Council, either directly or indirectly will be a disqualification, and applicants must state whether to their knowledge they are related to any member of the Council, or any co-opted member of a Committee, or any Officer of the Council. Failure to do so will disqualify or may lead to dismissal without notice.

No printed form of application is being used. Applications stating age, details of training and experience, qualifications, present and previous appointments (in chronological order) together with copies of three recent testimonials, or the names of three referees, should be forwarded to the undersigned so as to be received not later than 12 o'clock noon on MONDAY, the 11th MAY, 1959.

J. Y. HUGHES, M.I.C.E.,
Borough Engineer and Surveyor.

Town Hall,
Warrington.
15th April, 1959.

COUNTY BOROUGH OF OLDHAM.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited from qualified persons for the above appointment which involves the design and carrying out of architectural works of major importance in the town, and the successful candidate will be offered a salary in the upper limits of the Special Classes Grade (£750-£1,030), in accordance with experience.

The National Conditions of Service and Local Government Superannuation Acts will apply and the appointment will be subject to a satisfactory medical examination.

Housing accommodation is available if required.

Applications endorsed "Senior Architectural Assistant," together with the names of two referees, should reach me not later than FRIDAY, the 8th MAY, 1959.

A. L. HOBSON,
Borough Engineer and Surveyor.
Municipal Buildings,
73 Union-street,
Oldham.

COUNTY BOROUGH OF OLDHAM.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for the appointment of ARCHITECTURAL DRAUGHTSMAN at a salary within Grade Miscellaneous V (£625 x £20 £685), commencing salary according to experience.

The successful applicant will be engaged in the Architectural Section of my Department and should be a competent draughtsman, capable of working up detail drawings and carrying out the measurement of land and buildings.

The National Conditions of Service and the Local Government Superannuation Acts will apply, and the successful candidate will be expected to pass a medical examination.

Applications endorsed "Architectural Draughtsman," together with the names of two referees, should reach me not later than FRIDAY, the 8th MAY, 1959.

A. L. HOBSON,
Borough Engineer and Surveyor.
Municipal Buildings,
73 Union-street,
Oldham.

COUNTY BOROUGH OF EAST HAM.

PRINCIPAL ASSISTANT PLANNING OFFICER—GRADE A.P.T. III (£845-£1,025).

Vacancy in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 15th MAY, 1959.

LEEDS REGIONAL HOSPITAL BOARD.

PROPOSED NEW GENERAL HOSPITAL AT HUDDERSFIELD.

CLERK OF WORKS (BUILDING AND STRUCTURAL).

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS (Building and Structural), in connection with the construction of a new (600-bed approximate contract value £3,500,000) General Hospital at Huddersfield. Salary £1,000 per annum.

This project will be carried out in consecutive phases under the direction of the Regional Architect, P. B. Nash, A.R.I.B.A., and Messrs. Pite, Son and Fairweather. Preliminary contracts for the formation of the perimeter road and services ring mains and for the work of bulk excavation have been completed. The main building contract is scheduled to start in July/August, 1959, and to continue thereafter for a period of approximately six years.

Applicants must possess a thorough knowledge of all aspects of the building trade and must have had extensive experience as Clerks of Works on multi-storey reinforced concrete framed buildings. Membership of the Institute of Clerks of Works or the possession of the Clerk of Works Diploma of the Association of Building Technicians an advantage.

Applications, stating age, qualifications, previous experience, together with the names of two Architects to whom reference may be made, to the Secretary, Park Parade, Harrogate, not later than 16th MAY, 1959.

BOROUGH OF WANSTEAD AND WOODFORD.

BUILDING INSPECTOR'S ASSISTANT. (Miscellaneous Grade IV—£590-£650 plus London Weighting.)

Applications are invited for the above post in the Borough Engineer's Department. Application forms obtainable from L. S. Jeffery, Esq., Borough Engineer and Surveyor, Municipal Offices, High-road, Woodford, E.18, should be returned by FIRST POST on 15th MAY, 1959.

NOTTINGHAM AND DISTRICT TECHNICAL COLLEGE.

Burton-street, Nottingham.

Principal D. A. R. Clark, M.Sc. (Tech.), M.I.Mech.E.

Applications are invited for the post of ASSISTANT, GRADE B, in the Department of Building and Civil Engineering.

Candidates holding Institute of Builders, Institutions of Civil, Municipal or Structural Engineers, or Royal Institution of Chartered Surveyors qualifications preferred. Experience in aspects of contract planning, site organisation and management, or valuations and estate management an advantage.

Salary in accordance with the Burnham Technical Scale as follows: £650 plus 5 per cent rising by annual increments of £25 to £1,025 plus 5 per cent per annum. Additions for Assistants include degree allowance of £75 per annum (or £125 for good honours degree), up to three increments of £25 for training in approved cases and incremental allowance for industrial experience after age 21 and war service.

Further particulars and form of application may be obtained from the Principal, to whom completed forms should be returned not later than 15th MAY, 1959.

NORFOLK EDUCATION COMMITTEE.

Applications are invited for the following:—

1. ASSISTANT ARCHITECT, Salary Special Grade (at present under review).
2. ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade III (£880 to £1,065).
3. JUNIOR ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade I (£610 to £765).

For 1 and 2, experience necessary in the planning and erection of large buildings.

For 3, good general architectural experience necessary.

Forms of application from the undersigned to be returned within ten days of the date of this advertisement.

F. LINCOLN RALPHS,
Chief Education Officer.
County Education Office,
Stracey-road,
Norwich.

MIDLANDS ELECTRICITY BOARD.

SENIOR DRAUGHTSMAN (Architectural) Required at the Birmingham and District Sub-Area Headquarters.

A thorough technical training and practical experience in the design of and the preparation of complete working drawings for new buildings and alterations to existing buildings is essential. Appropriate qualifications desirable.

Salary within the range £790-£1,030 per annum. (N.J.B. Schedule 'D' Grades 5 or 4) according to qualifications and experience. Superannuable.

Apply, by letter, within 14 days stating age, experience, present position and salary to Emil Braathen, Sub-Area Manager, Midlands Electricity Board, 14 Dalend, Birmingham, 4.

A. STEPHENS,
Secretary.

NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

PERMANENT STAFF CLERK OF WORKS.

Applications are invited for the appointment of a PERMANENT CLERK OF WORKS (BUILDING) on the Headquarters staff of the Regional Architect in Newcastle to supervise the erection of buildings at hospitals in Northumberland and the northern portion of County Durham, under the direction of the Regional Architect and private architects employed by the Board. The duties of the post involve an appreciable amount of travelling and the successful applicant will be required to drive his own car for which he will receive a travelling allowance on a mileage basis.

Applicants for the post must possess a thorough knowledge of the building trade and have had previous experience as a Clerk of Works. They should also have had experience of specialised engineering services. Membership of the Institute of Clerks of Works or possession of the Clerk of Works Diploma of the Association of Building Technicians would be an advantage.

The salary scale will be £660 x £20 (1) x £25 (4)—£780 and the conditions of service will be those set out in Whitley Circulars P.T.B. 66 and 100.

Applications, stating age, qualifications, previous experience and date when available, together with the names of three architects to whom reference may be made, should be enclosed in an envelope endorsed "Clerk of Works" and must be forwarded to the Secretary to the Board, Benfield-road, Newcastle upon Tyne, 6, not later than 14th MAY, 1959.

MIDDLESBROUGH EDUCATION COMMITTEE.

SENIOR ASSISTANT ARCHITECTS, suitably qualified, required in the Education Architect's Office. Salary within A.P.T. Grade IV, £1,065-£1,220, according to experience. The posts offer an excellent opportunity for participating in a varied and expanding educational building programme. Housing accommodation will be made available for married applicants if required. Application forms from Director of Education, Education Offices, Woodlands-road, Middlesbrough, returnable by 13th MAY, 1959.

LONDON COUNTY COUNCIL.

ARCHITECT, Grade III (up to £1,090) and ARCHITECTURAL ASSISTANTS (up to £860) required for maintenance and restoration work on historic buildings owned by Council. Candidates should have knowledge of historical architectural detail and special interest in work. Experience in the maintenance of buildings an advantage. Starting salaries according to qualifications and experience, and at present under review. Particulars and application form, returnable by 19th MAY, from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/42/59, County Hall, S.E.1. (922.)

BOROUGH OF LUTON.

Applications invited for temporary QUANTITY SURVEYING ASSISTANT, General Division (£240) to Special Scale (£750 x £40-£1,030). Appointment will be for a period of approximately two years in first instance and commencing salary will be fixed in accordance with experience and qualifications. Application form from Borough Architect, Town Hall, Luton, returnable by 16th MAY, 1959.

CITY OF BRADFORD.

SENIOR QUANTITY SURVEYORS (2), A.P.T. IV (£1,065-£1,220) required on the permanent staff.

Candidates must be Corporate Members of the R.I.C.S. (Quantities Section) and have experience in the "Standard Method of Measurement."

No assistance can be given in the provision of housing accommodation.

Application Forms obtainable from the City Architect, returnable with copies of two recent testimonials, by 16th MAY, 1959.

W. H. LEATHEM,
Town Clerk.

Town Hall,
Bradford 1.

COUNTY BOROUGH OF BLACKBURN.

NEW TECHNICAL COLLEGE.

APPOINTMENT OF CLERK OF WORKS.

Applications invited for this appointment at a salary of £825-£25-£875 per annum. Applicants should be practical tradesmen, with at least 10 years' supervisory experience of all trades on substantial contracts with particular reference to multi-storey reinforced concrete structures, with piled foundations. Successful applicants will be considered for superannuation subject to a medical examination. Applications stating age, experience and qualifications, with copies of recent testimonials to be lodged with the Chief Education Officer, Education Offices, Library-street, Blackburn, within the NEXT TEN DAYS.

FRANK SQUIRES,
Town Clerk.

HUNTINGDONSHIRE

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above APPOINTMENT at a salary in accordance with A.P.T. Grade V, £1,175 0s. 0d. to £1,325 per annum. (This salary may be affected by N.J.C. for Local Authorities Administrative, etc. Services Circular No. 145.)

Candidates should be Associate Members of the Royal Institute of British Architects or hold equivalent qualifications and have had considerable experience in the design of schools, police, and other County buildings.

Further details and application forms may be obtained from the County Architect, County Buildings, Huntingdon. Completed application forms should be returned to the undersigned by FRIDAY, 22nd MAY, 1959.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

FLINTSHIRE COUNTY COUNCIL.

ASSOCIATES OF R.I.C.S. (QUANTITIES SUB-SECTION)

Applications are invited for a QUANTITY SURVEYOR (SENIOR). Candidates should be associates of R.I.C.S. with four years' practical experience as Quantity Surveyor since passing final examination. Salary A.P.T. V, £1,220-£1,375 per annum. Form of application from Clerk of County Council, County Buildings (P.O. Box No. 1), Mold. Closing date: 19th MAY, 1959.

TWO TECHNICAL ASSISTANTS

required in Public Health Department, Westminster City Council, to assist in survey and inspections connected with Smoke Control Areas under the Clean Air Act, 1956.

Applicants should have knowledge of building structure. Salary £610-£765 plus London Weighting up to £30. Applications stating name, address, age, qualifications, experience, present position, and names of two referees, to the Town Clerk, City Hall, Charing Cross-road, W.C.2, by SATURDAY, 9th MAY, 1959.

TECHNICAL ASSISTANT

(Temporary) for Property Maintenance Section. Experience in the preparation of schedules and the pricing of repairs essential. Salary scale £595-£755 p.a. (Increase of approximately £35 p.a. to be confirmed.)

Apply in writing, giving particulars of age, experience and training to Borough Architect, Council Offices, Canadian-avenue, Catford, S.E.6.

COUNTY BOROUGH OF BOLTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECT within grades A.P.T. I to A.P.T. III (£610 to £1,065) according to qualifications. Commencing salary will depend on experience. The post is superannuable and subject to medical examination.

Applications giving full details, including age, experience, present post and salary, and naming two referees, should be received by me not later than 11th MAY.

P. S. RENNISON,
Town Clerk.

METROPOLITAN BOROUGH OF LAMBETH.

HOUSING DEPARTMENT.

APPOINTMENT OF TECHNICAL ASSISTANT.

Candidates for this appointment (permanent establishment) should have had considerable experience in offices of surveyors or architects, principally in the maintenance of buildings, and should hold the intermediate certificate of the R.I.C.S. (or equivalent).

Salary £765-£880 p.a., plus London weighting (A.P.T. II); commencing salary within scale according to qualifications and experience.

Particulars and application form from Town Clerk, Lambeth Town Hall, Brixton Hill, S.W.2. Closing date: SATURDAY, 16th MAY.

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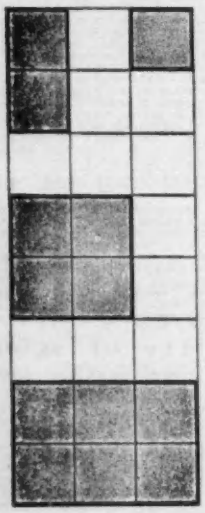

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See the Architectural Review * February 1957

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SOMERSET COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff of the department, viz.:—

SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. IV, £1,065-£1,220 (subject to adoption by County Council).

Applicants must be Associate Members of the Royal Institution of Chartered Surveyors and have had experience in the preparation of bills of Quantities and measuring for interim payments and adjustment of final accounts.

JUNIOR QUANTITY SURVEYOR, A.P.T. I, £610-£765 (subject to adoption by County Council).

Applicants must have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors and to have had several years' experience in an approved office.

Appointments are subject to N.J.C. Conditions of Service and to the Local Government Superannuation Acts 1937 and 1953. Successful applicants will be required satisfactorily to pass a medical examination.

Applications giving details of age, present and previous appointments, training and experience, and containing the names and addresses of two technical referees should be submitted to the undersigned on or before MONDAY, the 11th MAY, 1959.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park-street,
Taunton.

NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

During the next two years the Board plans to spend several millions on hospital developments and larger programmes are being planned to follow. The present building programme includes a wide variety of projects, ranging from houses to hospitals, and (since a large hospital resembles a small town) affords ample opportunity for gaining both general and hospital experience simultaneously.

The following posts in the Regional Architect's Department are at present open to applicants. The salary scales quoted include interim increases pending completion of a current Health Service review of salaries.

(i) ASSISTANT ARCHITECTS (4). Salary £730 x £25 (2) x £30 (2) x £35 (5) x £40 (1)—£1,055.

Applicants should be registered architects and have had experience of the planning and construction of public buildings. The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

(ii) ARCHITECTURAL ASSISTANT. Salary £545 at age 21 x £20 (3) x £25 (4) x £30 (2)—£765.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or an examination recognised by the Institute as equivalent, and some practical experience is desirable.

The commencing salary within the grade will depend upon the applicant's age and practical experience, but will not exceed £605.

(iii) ARCHITECTURAL DRAUGHTSMAN. Salary £445 x £25 (5) x £30 (3)—£660.

Applicants should have had previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary to the Board, Benfield-road, Newcastle upon Tyne, 6, not later than 7th MAY, 1959.

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(1) CHIEF ASSISTANT ARCHITECT, at a salary in accordance with A.P.T. Grade V of the National Scale of Salaries, £1,220-£1,275-£1,325-£1,375. Commencing salary according to experience.

(2) SENIOR ASSISTANT ARCHITECT, at a salary in accordance with A.P.T. Grade IV of the National Scale of Salaries, £1,065-£1,120-£1,170-£1,220. Commencing salary according to experience.

(3) ASSISTANT ARCHITECT, at a salary in accordance with the Special Grade of the National Scale of Salaries, at present £750 x £40—£1,030. Commencing salary according to experience.

(4) TEMPORARY CLERK OF WORKS, at a salary of £16 per week.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than 21st MAY, 1959.

T. C. HAYWARD,
Clerk of the County Council.
County Hall,
Chichester.
23rd April, 1959.

GOVERNMENT OF NORTHERN IRELAND.

(A) ASSISTANT ARCHITECT, CLASS II.

(B) ARCHITECTURAL ASSISTANT.

Applications invited for above posts in Chief Architect's Branch, Ministry of Finance. Posts (A) are pensionable and candidates must be Registered Architects by examination with at least two years' experience in an Architect's Office in preparing working drawings. Salary scale £805 (at age 25)-£1,095 (age 34 and over)-£1,260. Existing pension rights may, in certain circumstances, be transferred.

Candidates for unestablished posts (B) should have recognised architectural training and fair experience. Salary scale £585-£905; appointees who have passed R.I.B.A. Intermediate examination start at £730.

Preference for ex-Service men. Application forms for *both* posts obtainable from Director of Establishments, Room 271, Stormont, Belfast.

CITY OF SALFORD.

DIRECT WORKS DEPARTMENT.

Applications are invited from suitable qualified persons for the following appointment in the above Department:—MAINTENANCE SUPERINTENDENT.

Applicants must have had considerable experience in the building trade and must be capable of administrating and supervising the Maintenance Section of the Department. This Section employs 300 men engaged upon the maintenance of all Council properties, including Public Buildings, Houses, Schools, Clinics, etc., and, in addition, he will be required to supervise the construction of very small new buildings.

The person appointed must be capable of preparing details of labour, etc., for estimate purposes, have a knowledge of incentive payments as a comprehensive bonus system is operated on various classes of work. Previous experience with a Local Authority is not essential but experience with a large Maintenance Organisation will be an advantage, as will some experience of the control of building trade workshops.

Grade—A.P.T. III.

The commencing salary, according to experience, will be within the range of £880-£1,065 per annum.

This post is superannuable and subject to a Medical Examination.

Applications, giving details of present and previous appointments, qualifications and experience, together with the names and addresses of two referees, should be sent to the General Manager, Direct Works Department, Unwin-street, Cross-lane, Salford, 5, so as to be received not later than 10 a.m. on MONDAY, 18th MAY, 1959.

R. RIBBLESDALE THORNTON,
Town Clerk.

OVERSEAS PUBLIC APPOINTMENTS

INSPECTORS OF WORKS, CLASS II, required by Hong Kong Government P.W.D. either on probation for 3 years (normal tour 3½ years) to the permanent establishment or on contract for 3 years with gratuity at rate £150/£200 a year. Salary according to experience in scale (including expatriation pay and present temporary allowance at rate for single men) equivalent to £964 rising to £1,562 a year. Additional temporary allowance totalling £113/£180 (married men) and £226-£360 (family men). Free passages. Liberal leave on full salary. Candidates, preferably under 35 years, must be of good education and had several years' supervisory experience in large civil engineering projects in field and in the control of technical and manual labour on such projects. Trade apprenticeship or several years under training in a large civil engineering organisation an advantage. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/50297/BH.

INSPECTOR OF WORKS, WATER AUTHORITY, required by ADEN GOVERNMENT P.W.D. on contract for one tour of 18 to 24 months in first instance. Salary according to qualifications and experience in scale (including Pay Differential) £1,040 rising to £1,579 a year. Supplementary Pay Differential of £120 to £144 a year payable to officers with dependent children. Gratuity £150 a year. Outfit allowance £66. Free passages for officer and wife. Free passages for up to four children or allowance up to £288 annually for cost of education in U.K. Liberal leave on full salary. Quarters available at moderate rental. Candidates must have had wide experience in the maintenance of distribution mains and house services, water pumping plant and machinery. Write to the CROWN AGENTS, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/50579/BH.

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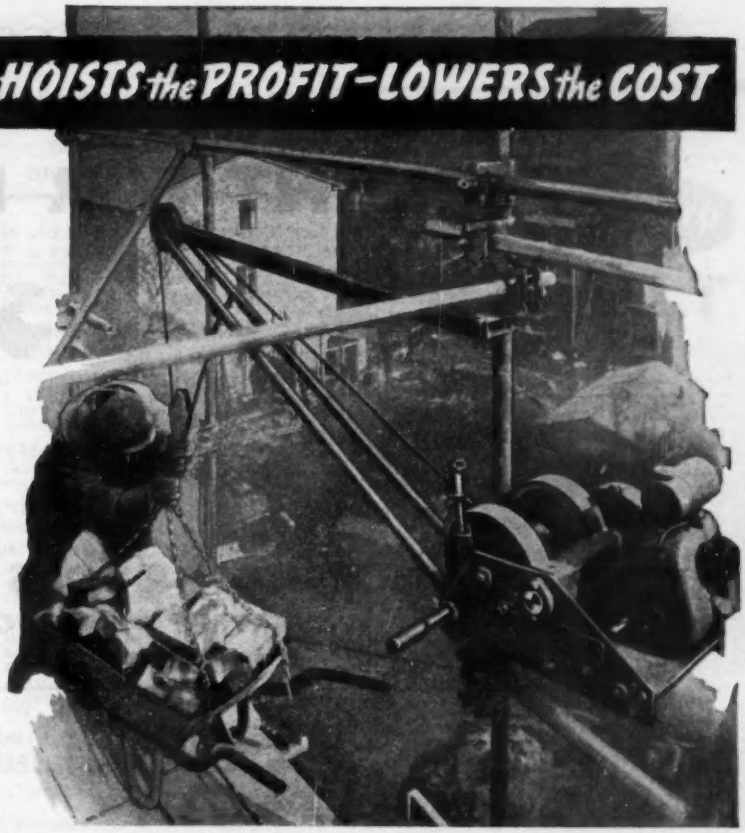

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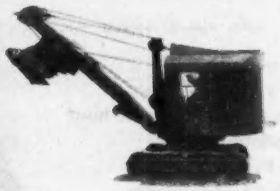

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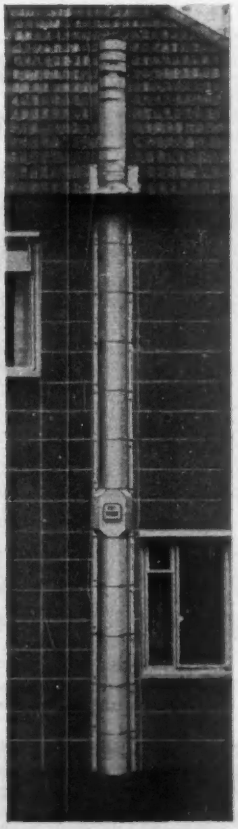

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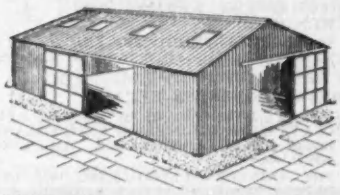

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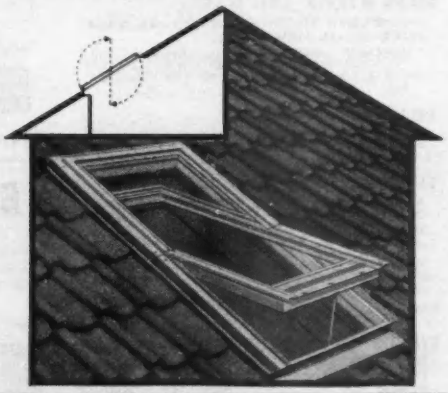

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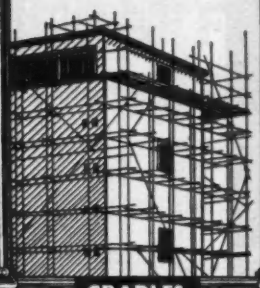

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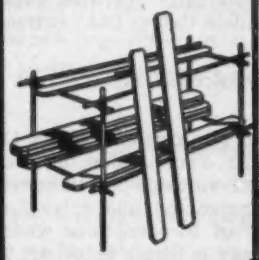

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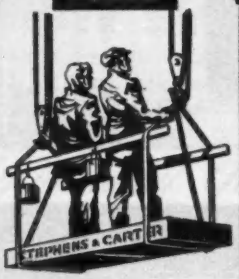

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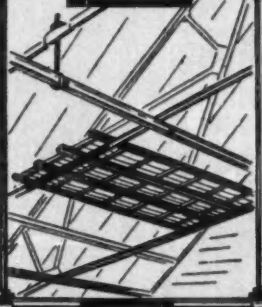

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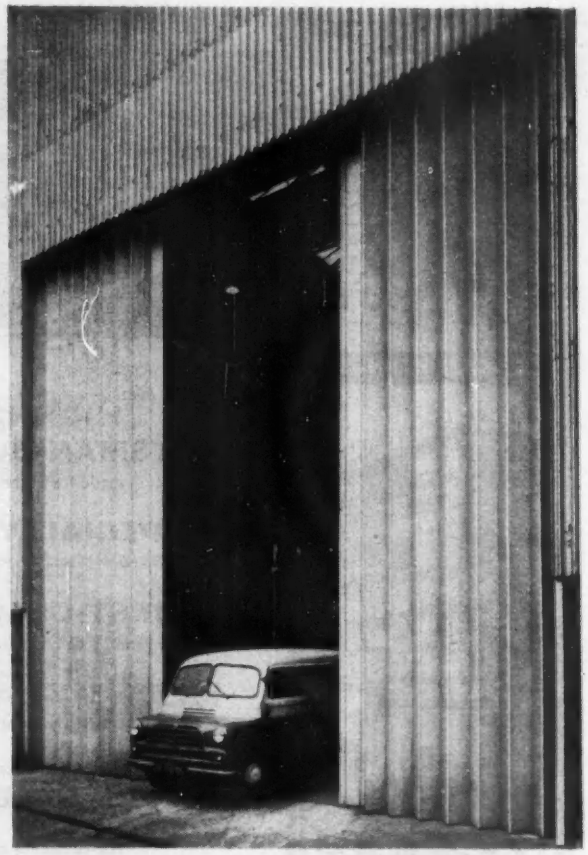

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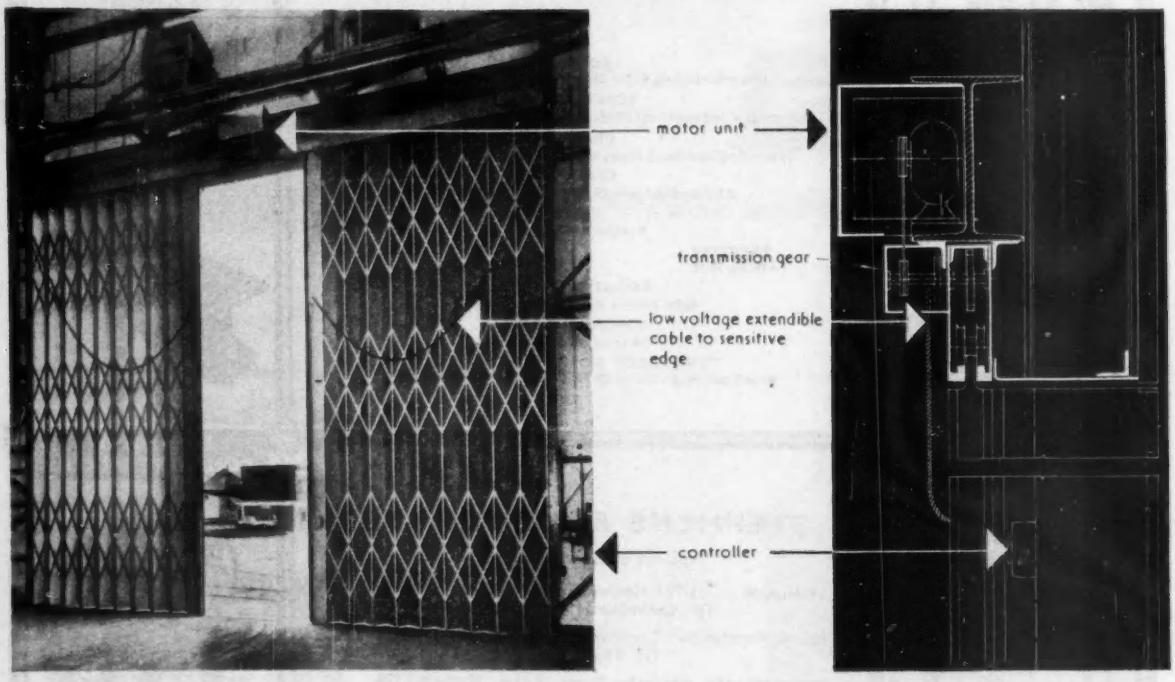

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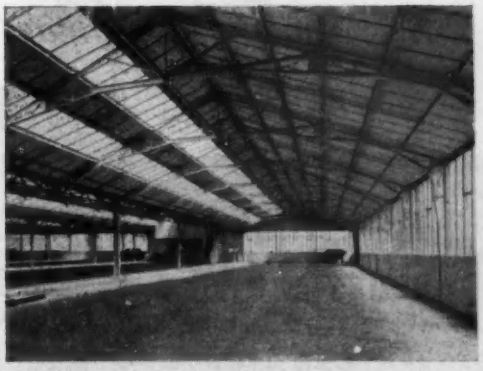

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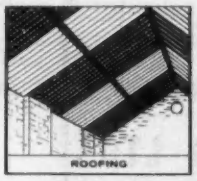

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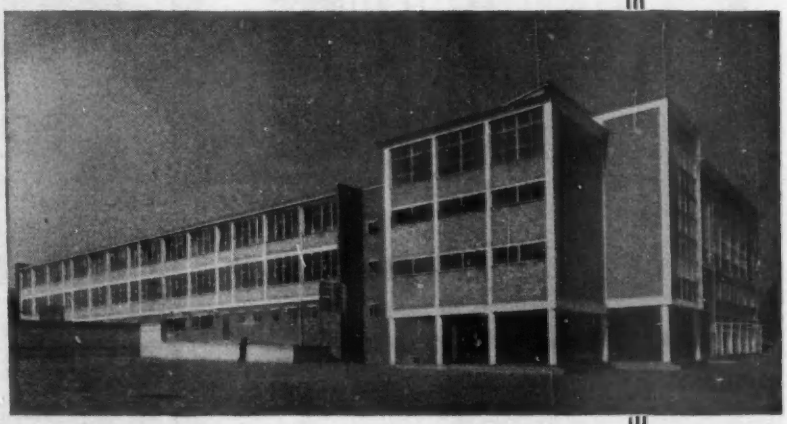

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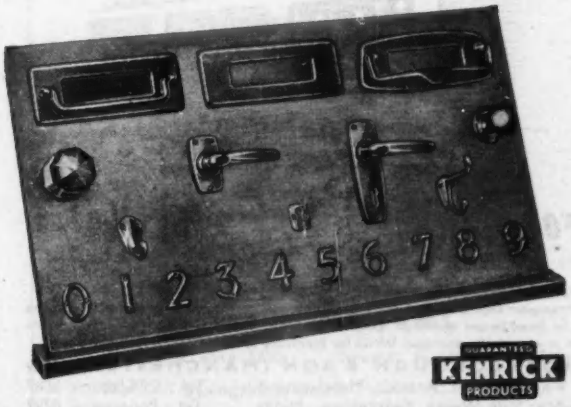

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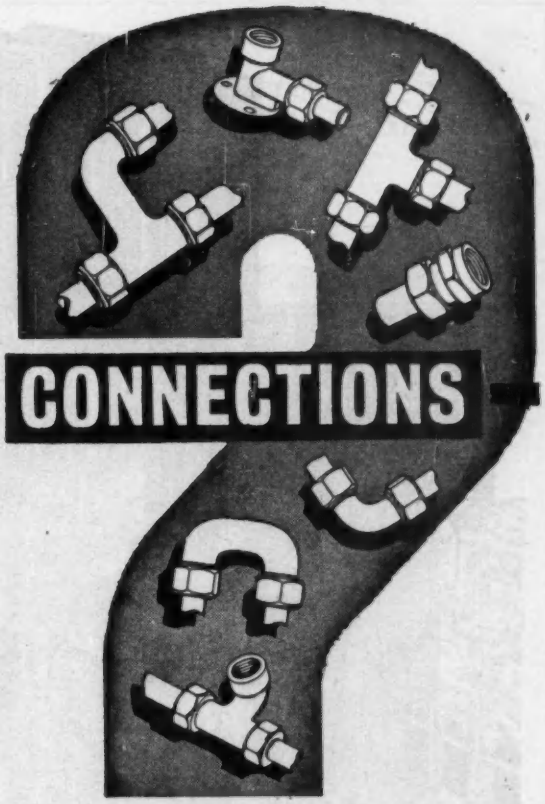

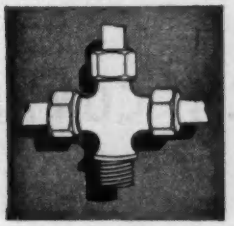

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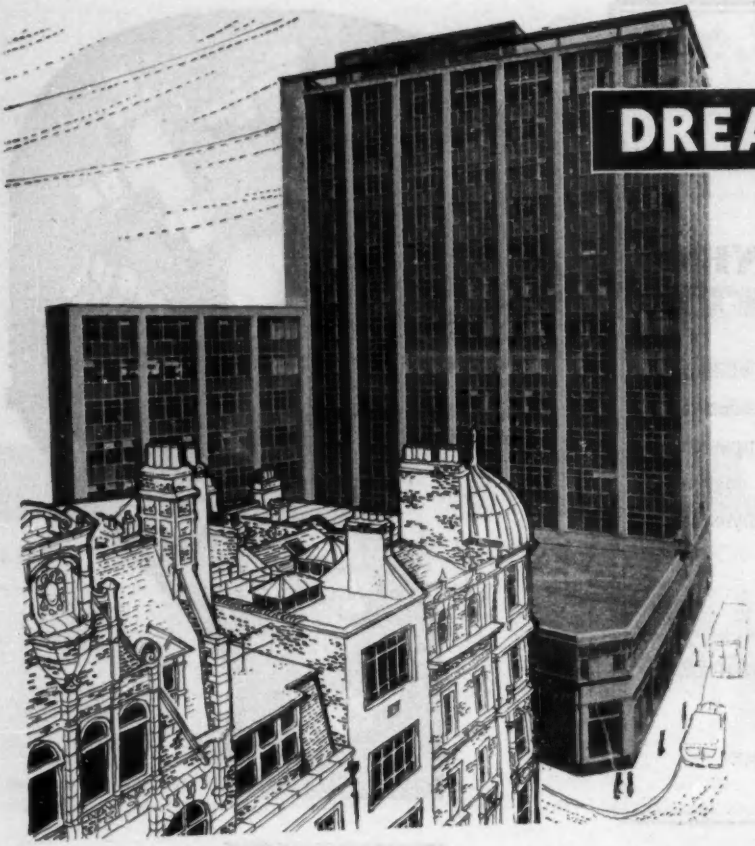

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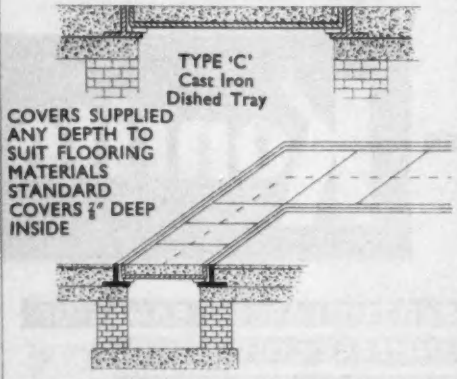

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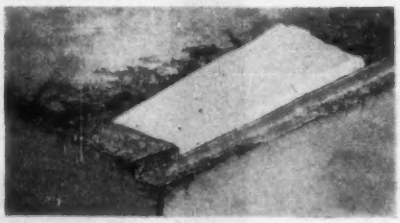

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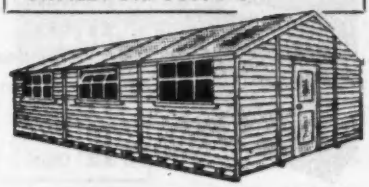

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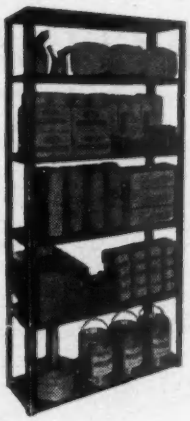

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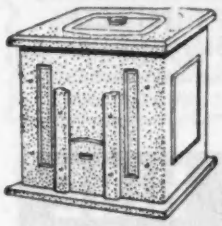

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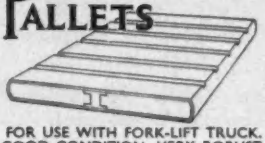

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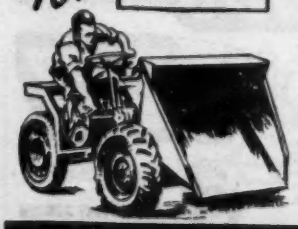

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WORKER-UP Required by medium-size progressive West End Chartered Quantity Surveyors engaged on U.K. and West Indies contracts. Prospects of advancement according to capability.—Write giving experience, and salary required, to Box 986, "The Builder."

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Required by

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To supervise the work of Contractors engaged on maintenance, adaptations, and new building works involving industrial buildings, laboratories, office blocks and houses.

A recognised apprenticeship in the building trades and experience with term contractors using schedules of rates and the ability to measure are required. Possession of O.N.C. and experience of ordering of materials, estimating and the preparation of small schedules of work are desirable.

SALARY £780 (at age 28 or over)—£905.

Contributory Superannuation Scheme. A house or substantial assistance with house purchase will become available for married officers living beyond daily travelling distance. POSTCARDS for application forms to the **Senior Recruitment Officer at above address.**

Please quote ref. A2173/118.

A. MONK & COMPANY, LIMITED, Require SITE ENGINEERS for major prospects in and around the Lincoln and Leicestershire areas, experience in High Quality reinforced Concrete Structures an advantage. Permanent and progressive posts. Superannuation Scheme in operation. Applications in confidence stating age, full details of experience and qualifications, etc. Applicants residing outside these areas. Subsistence Allowance under the terms and conditions of the Company's Rules would be payable. Please reply to Mr. W. S. Whittingham, A. MONK & COMPANY, LIMITED, P.O. Box No. 4, Stamford, Lincs.

JUNIOR TECHNICAL ASSISTANT Required to generally assist Senior Estimating Staff in busy S.E. London Builders' office. Splendid opportunity for young person to gain further qualifications and first class experience.—Write stating age, present experience and salary required, to Box 331, "The Builder."

CLERK OF WORKS Required for Laboratory project near Manchester. Commencing July, 1959, duration approximately 15 months. Previous experience of laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Write Box 345, "The Builder."

CLERK OF WORKS Required for supervision of new C.E. Secondary School (2-Form Entry), at CROSTON, NR. PRESTON, LANCS. Duration of engagement approximately May, 1959-August, 1960. —Reply giving particulars of experience, and salary required, to F. THORPE & WHYMAN, F./A.R.I.B.A., Architects, Church-lane, Oldham.

CLERK OF WORKS Required to supervise the construction of the National College for Heating, Ventilating, Refrigeration and Fan Engineering in Southwark (approximate value £250,000). Possible duration 12/13 months from July, 1959. Salary approximately £20 per week. Some experience of complicated mechanical services essential. Application giving age, full details of experience, salary required and names of two referees, to: NORMAN & DAWBARN, Architects and Consulting Engineers, 7 Portland Place, W.1, by Monday, 10th May.

CLERK OF WORKS, fully experienced in Building Contracts Required immediately on large site at Northfleet.—Please write, in confidence, to Box 456, "The Builder."

EXPERIENCED CLERK OF WORKS Required, qualified to supervise construction of a high quality reinforced concrete framed lecture theatre and dining hall building in Hammersmith. Contract initially two years.—Applicants should apply in writing to MESSRS. LYONS, ISRAEL & ELLIS, 43 Portland-place, London, W.1, stating age and academic and practical qualifications.

SENIOR ESTIMATOR

required, used to competitive pricing in the London area. Permanent appointment with contributory pension scheme. Write in confidence giving full details of age, experience, and salary required to :—

Personnel Manager,
Holland & Hannen and Cubitts (Great Britain) Ltd.,
1, Queen Anne's Gate, London, S.W.1.

PLASTERING Specialists have a vacancy for ASSISTANT ESTIMATOR and MEASURING SURVEYOR, resident in London. Contributory Pension Scheme operating.—Apply stating age, experience and salary required to PLASTERING, Ltd., Coronation-road, Acre-lane, Brixton, London, S.W.2.

AN immediate opportunity exists for an experienced ESTIMATOR to join the Civil Engineering Staff of the Pointer Group at their Head Office. Successful applicant will be invited to join the contributory Pension Fund, after serving probationary period.—Apply giving full details of age, experience and salary required, to HARRY POINTER (NORWICH), Ltd., 5 Guardian-road, Norwich.

WALTER LILLY & CO., Ltd. Require an ESTIMATOR/SURVEYOR capable of pricing work up to £100,000 in their expanding Contracts Dept. The position offers opportunity for advancement in growing concern. Superannuation and bonus schemes in operation.—Write stating age, experience and training and salary expected, to The Manager, 8 St. Ann's-street, Westminster, S.W.1.

ASSISTANT ESTIMATOR Required by the manufacturers of "Middlesex" Prefabricated Timber Buildings. Experience in Taking-off, scheduling, and sound technical knowledge essential.—Apply stating age, salary and experience to J. E. LESSER & SONS, Ltd., Green-lane, Hounslow. (HOU 7281-7.)

ASSISTANT ESTIMATOR/SURVEYOR (car driver), residing S.E. London or N.W. Kent, Required by old established builders. Age 25 or thereabouts, with sound technical background, preferably up to C. and G. standard in Q.S. and Estimating with experience in all classes of work. Contributory Pension Scheme. Existing holiday arrangements respected.—Apply, stating age, experience and salary required to Box 353, "The Builder."

ESTIMATOR/SURVEYOR Required, experienced in small works and medium-sized contracts.—Full details of experience, age, etc., to C. JENNER & SON, Ltd., 11 North-street, Ashford, Kent.

JOHN LAING AND SON LIMITED

have vacancies in their

ESTIMATING DEPARTMENT

at Head Office for

ASSISTANTS

The duties will entail issuing enquiries for Materials and Sub-Contractors' Quotations. Applicants should be between 25 and 35 years of age and be familiar with, and able to interpret, Bill of Quantities and Contract Conditions. Previous experience in ordering an advantage. 5 day week. Canteen and Sports Club facilities. Apply in writing stating age, qualifications and experience to **Personnel Manager (E.D.3.), John Laing and Son Limited, London, N.W.7.**

EXPERIENCED ESTIMATORS / QUANTITY SURVEYORS and ASSISTANTS Required by progressive Building and Civil Engineering Contractors operating in Southern Counties. Sound knowledge of preparing and pricing Bills of Quantities, including preparation of Bonus figures essential. Both Senior and Junior persons wishing to progress will be favourably considered. Salary will be according to capabilities and Commission will be paid on results achieved, also invitation to join Pension Scheme after trial period. Firm is anxious to attract keen and enthusiastic persons who are prepared to use their best endeavours in the interests of the Company's expanding activities, to the mutual advantage of all concerned.—Apply Box 391, "The Builder."

ESTIMATOR Required for works engineers' department of large Coventry Engineering Company, in connection with all types industrial building work. Some knowledge of estimating for plant and service installations would be an advantage.—Write, stating experience, age and salary expected to Ref. ES, Box 392, "The Builder."

SENIOR ASSISTANT ESTIMATOR required for St. Albans office. Applicants should possess a wide experience in the preparation of tenders from Bills of Quantities and drawings for building work of every description.—Reply stating age, previous experience and salary required, to: Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

ESTIMATOR

required by

London Building Contractors

with experience of contracts up to £1,000,000. Pricing must be based upon sound methods related to modern building technique and applicants must be conversant with all trades. Permanent position with good salary and pension. Write stating age, particulars of experience and salary expected to

Box No. 487 "The Builder"

ESTIMATOR.—Experienced ESTIMATOR Required for building contracts of £50,000-£200,000 range in Central London area.—Write, giving experience, age and salary required to The Secretary, GRIGGS & SON, Ltd., 56 Victoria-street, London, S.W.1.

ASSISTANT ESTIMATOR for Joinery Works in N.W. London. Experience in pricing purpose made joinery from drawings and specifications and practical background essential. Permanent and progressive position with excellent prospects for applicant with initiative. — Reply to Box 435, "The Builder."

ASSISTANT ESTIMATOR Required by well known firm of Building Contractors for attachment to their headquarters staff in London. Candidates (preferably between 28 and 34) should have a thorough knowledge of construction and quantities and some knowledge of building up prices. Excellent opportunity for one desirous of specialising in this particular branch of the trade.—Please write giving particulars of age, experience and some indication of the salary required to Box 436, "The Builder."

ESTIMATOR Required by old established Building Contractors for the Liverpool-Manchester area. Applications (which will be regarded as confidential) should furnish particulars of age, experience and salary required.—Box 437, "The Builder."

BUILDER'S ESTIMATOR Required by COOKE BROS., Ltd., Newbury; fully experienced in preparing competitive estimates, bonus targets and final accounts for all types of general building work up to £50,000 and Taking-off quantities for smaller work. —Reply stating age, experience and salary required.

ESTIMATOR/SURVEYOR Required with experience in pricing Bills of Quantities, preparing Valuations for Interim Certificates and Final Accounts. Permanent position with good prospects.—Write full particulars (stating age and salary required) or 'phone for appointment, L. & W. WHITEHEAD, Ltd., 169 Clapham-road, S.W.9. Telephone: RELiance 3331.

HUMPHREYS LIMITED

199, Knightsbridge, London, S.W.7

require the following staff

ESTIMATORS

To assist Chief Estimator on a wide range of building and civil engineering work, must have had experience on substantial projects with reputable firms and be capable of producing detailed make-ups based on modern plant usage and techniques. Substantial salaries, good conditions, superannuation etc. for the right men. Please give details of education, experience, when available, and salary required, in strictest confidence. Envelopes should be addressed to Personnel Department, Humphreys Ltd. and marked 'Private and Confidential.'

HOLLAND & HANNEN AND CUBITTS (G.B.) LTD.,

Require a competent ESTIMATOR for their JOINERY WORKS. The position is permanent, with staff bonus and pension schemes. Applications stating age, past experience, and salary required should be sent in strict confidence to the Joinery Manager, 258 Grays Inn-road, London, W.C.1.

EXPERIENCED ESTIMATOR Required by old-established building company in East London. Good salary. Profit sharing scheme and staff pension scheme.—Box 457, "The Builder."

SUPERVISOR/ESTIMATOR Required by leading Building and Civil Engineering Contractors, able to deal with small jobbing and maintenance work in Central London from enquiry to final account.—Applicants are invited to send full details to Box 475, "The Builder."

BUILDER'S ESTIMATOR AND SURVEYOR Required by Central London Builders. Permanent job for man used to alterations and new works, and able to take off own quantities where necessary. Please reply giving details of experience and salary required.—Box 486, "The Builder."

JOINERY ESTIMATOR. An experienced Joinery Estimator Required to handle building and housing estimating work.—Write full particulars to RUTHERFORD, GEAKE & Co., Ltd., Hanworth Trading Estate, Feltham, Middlesex.

ESTIMATOR Required, with surveying experience, for general building work. Must have sound knowledge of building up prices.—Write stating age, experience and salary required to GALBRAITH BROS. Ltd., Crayford Bridge, Crayford, Kent.

SHOPFITTING ESTIMATOR

required for senior position. Excellent salary for competent man. First class conditions. Modern furnished semi-villa available. State details of experience, age, etc., in confidence to:

Box No. 451 The Builder

MANAGER Required by old-established provincial Contractors for their office in London. Excellent prospects for experienced gentleman of integrity and sound personality. Must be capable of preparing estimates up to £200,000, interviewing clients and organising the job to Final Account. The position is permanent with excellent scope for advancement. Assistance could be given towards housing if necessary.—Applications with full details of age, qualifications and past experience, to Box 393, "The Builder."

PERSONNEL MANAGER. A large contracting organisation Requires the services of a competent person, based at its Head Office in the North of England, to supervise all personnel and welfare matters throughout the Company. The post requires: (1) a knowledge of the Working Rules of both the Civil Engineering and Building Industries, Safety Health and Welfare Regulations, and the law relating to employment generally; (2) previous experience in a similar capacity in the contracting industry including experience in negotiating with Trade Union officials. The appointment is pensionable and carries a salary commensurate with the duties involved.—Reply fully with details of age, qualifications and experience to Box 394, "The Builder."

CONTRACTS MANAGER Required for flat and housing estates, borders of Berkshire, Middlesex and Surrey. Permanent position. Write stating age, salary and experience.—Box 977, "The Builder."

EXPERIENCED TOP GRADE CONTRACTS MANAGER Required by old-established Buckinghamshire Builders engaged in general Contracting work up to £250,000. Successful applicant required to be responsible to Directors for all aspects of Contract Administration and Planning and must have previous experience and good references for position of a similar nature. Preference will be given to applicant under 40 years of age.—Write in first instance to Managing Director, Box 395, "The Builder."

MANAGER Required for control of contracts department of reinforced concrete engineers. London area.—Box 396, "The Builder."

CONTRACTS MANAGER Required for flats and housing estates by progressive building company north of Thames. Permanent position, pension scheme. Car owner.—Write stating age, experience, salary required. Box 397, "The Builder."

PAINTING MANAGER

required by large Midland building company to take charge of live painting and decorating department. Generous salary, car and superannuation to successful applicant. In strict confidence give brief particulars of experience and present salary to: Joint Managing Director,

C. Bryant & Son Ltd.,
65, Whitmore Road,
Birmingham, 10.

ASSISTANT TO CONTRACTS MANAGER. Young man completed National Service with H.N.C. and experienced in contract routine including taking-off and ordering materials. Permanent and progressive position for right applicant. Superannuation scheme and bonus.—Apply in writing, giving age, qualifications, experience and salary required, to M. HOWARD (MITCHAM) Ltd., Wandle House, London-road, Mitcham, Surrey.

WELL-KNOWN Roofing Contractors specialising in Asbestos Sheeting, Wall and Floor Tiling, and Slating and Roof Tiling, Require first-class man to organise contracts and to supervise labour at their West of England branch which has excellent and growing connections. Existing staff already notified. —Please apply, stating age, experience and salary required, Box No. 8947, c/o WHITES, 72 Fleet-street, E.C.4.

B. FINCH & CO., Ltd., Belvedere Works, Burkingside. WALLTILING CONTRACTS DEPT. MANAGER. Perm. superannuated position.—Written application stating experience to ref. ADJS.

MASTIC ASPHALTE, Bituminous Felt and Decorative Flooring Contractors Require experienced WORKS MANAGER for internal control of London contracting department. The work involves Contract Planning, transport, control of Supervisors, Staff and Operatives. The position will be superannuated. Very good prospects for keen and conscientious man with a tidy mind and good organising ability. Only those with the above experience need apply to DURASTIC Ltd., 306 Burdett-road, London, E.14.

Littlewoods Mail Order Stores Ltd.

require a

BUILDINGS INSPECTOR

for their Construction Department

This progressive and expanding Company is undertaking an extensive building development programme and a variety of interesting projects are in progress throughout the British Isles. A Building Surveyor or Superintendent Clerk of Works is required to make routine inspections and to report on buildings under construction. The post is permanent and pensionable. A generous salary, together with expense allowances, will be paid. 5 day week. Applications in writing should be addressed to:—Employment Manager, (Ref: B1/102/TB),

Littlewoods Mail Order Stores Ltd., Spinney House, Church Street, Liverpool X.

REPRESENTATIVE Required by century-old private company to call on architects London area. Age 25/35. Pension scheme.—Write stating age, qualifications and salary required to L. WETTERN, 56 Dingwall-road, Croydon.

FENCING contractors Require BUYER for Taking-off and ordering materials, etc. Previous fencing experience an advantage.—Apply in writing to VARDALE FENCING CO., Ltd., 68-76 Varcoe-road, S.E.16.

SALES PROMOTION ASSISTANT Required as technical correspondent by leading manufacturer of prefabricated buildings (Home Counties). Essential characteristics are architectural or building trade background, flair for selling, sound executive sense with ability to write concise and fluent technical sales letters of a high standard.—Send full details of education, career, salary, etc., to Box 398, "The Builder."

J. L. Green & Vardy Ltd.

have a vacancy for an

EXPERIENCED SALESMAN

with connection amongst Architects and other users of high quality architectural joinery, panelling, partitioning, Office and special Contract furniture. Apply with full details of age, experience, salary, etc., to Director: Green & Vardy Ltd., 79 Essex Road, N.1.

REPRESENTATIVE experienced in road and building materials Required by century-old private company for N.E. Home Counties. Age 25/35. Pension scheme.—Write stating age, qualifications and salary required, to L. WETTERN, 56 Dingwall-road, Croydon.

SHOPFITTING DRAUGHTSMEN AND REPRESENTATIVES

Vacancy occurs in the London Office for experienced Shopfitting Design Draughtsmen, with knowledge of Store layout work; also representatives having connections with Architects and leading Stores. The positions hold excellent prospects for candidates possessing a high standard of education, tact and initiative, and a good Pension Scheme operates.

Please reply in confidence to the Managing Director:

GEORGE PARNALL & CO. LTD.
4 Bedford Square, London, W.C.1

EXPERIENCED SALES REPRESENTATIVE in floorings Required for London area to contact architects and contractors. Must be capable of earning at least £2,000 per annum in commission with a guaranteed minimum, plus car and expenses.—Apply with details of experience to Box 399, "The Builder."

AN interesting SALES POSITION for young man with drive and ability who has knowledge of the building trade, particularly in regard to contacting architects. Position vacant, Birmingham/Manchester area. Own car advantageous.—Please write, giving full details of experience, to Box 400, "The Builder."

CONTRACTS DEPARTMENT of old-established Flooring Company Require SPECIALIST FLOOR COVERING REPRESENTATIVE. Must be fully conversant with all forms of modern Floor Coverings, Linoleums, P.V.C., Cork and Rubber Floorings. Established connection an advantage.—Write in confidence stating experience, salary required, to Box 452, "The Builder."

EXPERIENCED REPRESENTATIVES and TRAINEES Required by Sterling-Safway Unit Frame Scaffolding for London area.—Full details to STERLING-SAFWAY, Iddesleigh House, Caxton-street, S.W.1.

ASSISTANT BUYER

An old-established B. and C.E. Contractor with Head office in West Midlands require an Assistant Buyer. Age between 25 to 35 years, educated to H.N.C. level including Maths, with at least 5 years' previous experience in the trade, building Surveyor trained and used to B. of Q., specification and contract documents with some knowledge of Sub-Contracts and material markets. Applications should state brief details and will be treated with strict confidence and should be addressed to the Commercial Manager,

Box 416

BUILDER'S CLERK for prime cost contracts and assist generally in surveyor's dept. of busy N.W. London contractor's office. Opportunity to gain experience working with surveyors and possibly wit training, take over the duties of Assistant Surveyor. Pension scheme in operation and holiday this year.—Write giving full details of experience and salary required to Box 422, "The Builder."

WAGES DEPARTMENT in Head Office Requires CLERK. Male or female, experienced in both Contract and Jobbing Wages Analysis and P.A.Y.E. —Write giving full particulars including salary required to CHARLES H. PRICE, Kingsbury-road, N.W.9.

COST CLERK Required for Contractor's office, East London. Previous experience essential.—Write stating age, experience and salary required.—Box 401, "The Builder."

COST CLERK, capable and experienced, Required. Permanent and progressive post with pension scheme and 5-day week.—Write details experience, age and salary required.—Secretary, DIESPEKER & CO., Ltd., Clifton House, Euston-road, N.W.1.

BUILDER'S CLERK Required by small old-established West Surrey Builder, for general office routine.—All details to Box 459, "The Builder."

BUILDERS' CLERK to send out enquiries to Sub-Contractors and Suppliers for estimating, and assist in Cost and Order Departments.—Reply stating age, experience and salary required, The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

COST CLERK, experienced, medium builders, Charing Cross. P.A.Y.E., costing and general routine. Non-contributory pension scheme. Must be live wire and have co-operative outlook.—Write in confidence, stating experience, age and salary required, Box 488, "The Builder."

WAGES CLERK (male or female) for Builders' and Decorators' office. Must be quick and accurate.—Reply in first instance to Staff Office, DRUCE & CO. (DECORATIONS), Ltd., 44 Gloucester-avenue, N.W.1.

ASSISTANT Required in Small Works Department of Westminster Contractor. Capable of preparing estimates from drawings and/or site measurements. Training in pricing will be given. Excellent opportunity offered in growing concern, for keen man.—Write giving experience, training, age and salary required to Box 402, "The Builder."

ASSISTANT to Director Required, sound knowledge of Builders Estimating and Surveying essential, prepared to work on own initiative. State age and experience, commencing salary up to £850 per annum. Holiday commitments respected.—Box 403, "The Builder."

YOUNG ABSTRACTOR Required by West London firm of painting contractors. Preparation increased costs, dayworks. Good salary, luncheon vouchers, superannuation.—Reply to Box 404, "The Builder."

JUNIOR ASSISTANT, aged 20-25, Required in Maintenance Department of large commercial undertaking. General building experience, good draughtsman and tracer, and capable of keeping drawing office records and information, etc. Interesting work in ideal office conditions with canteen and other facilities. Five-day week. S.W.1 area.—Apply stating education, experience and salary required to Box 405, "The Builder."

BUILDING AGENTS

required by a National Firm of Contractors for the Midlands and South Wales Areas—capable of controlling 5 to 7 sites with values ranging from £10,000 to £300,000—such as Local Authority Housing—private enterprize—Ministry and other specialized works. Applicants must be well experienced in Site organization and pre-planning, posessing initiative and drive, to work on own account—Technical qualifications preferred, but not essential. Permanent position with superannuation scheme—Car provided—full details required of *ALL* previous experience in date order together with Salary required. All replies will be acknowledged and information treated in strict confidence—staff informed.

Box No. 405 "The Builder"

A PROGRESSIVE Timber Building and Joinery firm in Surrey Require the services of a Practical ASSISTANT FOREMAN trained in the technicalities of the trade and familiar with the latest woodworking methods. He must be capable of preparing proper working drawings, setting-out and taking-off cutting details. Write stating previous experience, age and salary required.—Box 332, "The Builder."

GENERAL FOREMAN Required for medium-size contract in East Kent.—Write giving details of age, experience and salary required to Box 344, "The Builder."

GENERAL FOREMAN with considerable drive Required on West London Contract to take full charge under Agent. Progressive position. Pensionable.—Write Box 333, "The Builder."

GENERAL FOREMAN (C. & J.) Required on large contract in the Uxbridge Area to assist Agent.—Box 334, "The Builder."

GENERAL FOREMAN Required, experienced, keen and energetic man, capable of handling varying types of building contract, £100,000 to £120,000. Must be used to dealing with all trades and sub-contractors.—Apply, giving full details of experience, age, etc., in writing, to A. E. SYMES, LIMITED, Albert House, 236 High-street, Stratford, E.15.

AGENT/GENERAL FOREMAN Required by established Building Contractors on the south coast. Excellent prospects are offered to an energetic and experienced man who will be required to work on contracts in the Brighton area.—Apply in writing to Box 407, "The Builder."

SENIOR GENERAL FOREMAN Required. Large London Building Contractor. Applicants must be fully experienced and prepared to travel. Excellent salaries to suitable applicants. Pensions Scheme.—Write, stating age and full experience, to Box 408, "The Builder."

SUPERVISING AGENTS

Positions are available in expanding Building and Civil Engineering Contractors Organization in South West London. Operating area involving 10/20 contracts requiring supervision of Foremen, co-ordination of Sub-Contractors, Plant, programming and close liaison with Directors and Head Office Administration.

Salary £1,400 per annum, plus bonuses, car allowance and superannuation offered.

Applicants should be between the ages of 30 and 40 years, must possess actual experience in this capacity, having practical and technical background, sound appreciation of contracting economics and drive.

Apply in writing giving fullest personal particulars, qualifications, experience, age, etc. to **Box No. 438, "The Builder."**

EXPERIENCED CONTRACTS SUPERVISORS

required for large School, Flat and Factory construction. Applicants must have proven administration experience and be capable of agreeing and working to a strict time schedule. Pension Scheme available. Write giving details of age, experience and salary required to **H. C. Janes Ltd., 183 High Town Road, Luton, Beds.**

GENERAL FOREMAN Required for flat and housing contracts, Surrey, Sussex and Hampshire areas.—Write giving full particulars of past experience.—Box 970, "The Builder."

SITE FOREMEN, experience in reinforced and pavement concrete contracts of a major nature, Required in East Midlands. Must be capable of producing satisfactory work and meeting rigid programmes.—Reply giving complete details of experience and date available.—Box 409, "The Builder."

GENERAL FOREMAN Required for £60,000 municipal flat contract in the City.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMEN Required for £30,000 municipal contracts at Malden and Greenwich.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMAN Required for large housing scheme at Maidstone, Kent.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

CONTRACTS SUPERVISOR Required for general works department of large building contractors in N.W. London. Duties to include supervision of several small contracts of up to £20,000 each. Car driver. Pension scheme. Existing holiday arrangements honoured.—Write stating full details of age, experience and salary required to Box "M.N.", c/o J. W. VICKERS & CO., Ltd., 7/8 Great Winchester-street, E.C.2.

GENERAL FOREMAN Required for Local Authority flats contract in South London. Permanent position and superannuation scheme for right applicant.—Apply in writing, stating age, experience and salary required, to M. HOWARD (MITCHAM), Ltd., Wandle House, London-road, Mitcham, Surrey.

FIRST-CLASS FOREMAN/AGENT Required for a specialist reinforced concrete contract in Liverpool area. Must have had varied experience in precast work.—Apply Box 440, "The Builder," stating age, salary required and detailed experience.

TERRAZZO and MOSAIC SUPERVISOR

required by progressive Company, Middlesex area; must be fully experienced in flooring trade, and held similar position controlling labour and attending site meetings, for contracts valued up to £70,000. Knowledge of Italian essential, and in possession of current driving licence. Permanent and progressive position for right applicant.

Box No. 425 "The Builder."

GENERAL FOREMAN Required by well-known Builders for housing estate London suburbs. Excellent prospects.—Write with full details to Box 439, "The Builder."

GENERAL FOREMAN Required, Manchester area. Must be fully experienced. First-class job for first-class man. Others, please do not waste your, and our, time. Permanent and pensionable.—Write full details of experience and state salary required, to Box 441, "The Builder."

GENERAL FOREMAN Required by large Firm of National Building Contractors, for major W.D. contract at Chepstow commencing in June. Applicants should be thoroughly experienced in this class of work, and be used to working to a strict time schedule. The post is pensionable after a short trial period.—Apply Box 454, "The Builder."

CONTRACT SUPERVISOR Required for Bucks area. Applicant must be capable of planning, running and completing contracts on time. Only men with sound experience and practical background will be considered.—Write giving full details of age, experience and salary required to SLOGGETTS (CONTRACTORS) LIMITED, 209 High-street, Hampton Hill, Middlesex.

DEPUTY GENERAL FOREMAN (C. & J.) Required, North London area, for small building and minor alteration jobs. State age, experience and salary required.—Box 489, "The Builder."

CONTRACTS SUPERVISOR Required, age not exceeding 40. Must possess first-class knowledge and experience of handling all types of Contracts from Housing Estates to Multi-Storey development. A high standard of administrative ability essential.—Apply in writing, PROWTING, Ltd., 127 High-street, Ruislip, Middlesex, stating age, experience and salary required.

GENERAL FOREMEN

required for large Building and Civil Engineering Contracts—Birmingham and the Midlands. Permanent position to the right applicants. Superannuation and bonus. Apply giving full particulars to:—

Wates Limited, Exchange Buildings, New Street, Birmingham 2.

WORKING FOREMAN CARPENTER. A young man with energy Required to take charge of the carpentry department of old-established jobbing builders in Kensington, all types of work. Details of previous experience to Box 444, "The Builder."

JOINERY SETTER-OUT

Medium-sized works near Birkenhead producing high quality joinery requires an experienced SETTER-OUT.

Must have served full apprenticeship.

Apply giving age, full details of experience and approximate weekly wage required.

Write Box 446, "The Builder."

JOHN LAING AND SON LIMITED invite applications from experienced FOREMEN CARPENTERS and FOREMEN BRICKLAYERS, under 35 years of age. The appointments offer opportunity and training for increased responsibility in supervision and applicants should have suitable technical qualifications. Full mobility required and interested persons should apply in writing stating age, experience and qualifications to Personnel Manager (Ref. FCB.2), JOHN LAING AND SON LIMITED, London, N.W.7.

WORKING FOREMAN CARPENTER Required by Bromley, Kent, Builders, capable of running jobs up to £10,000.—Write stating age, experience and salary required, to Box 492, "The Builder."

PAINTER'S SUPERVISOR Required, salary, good bonus arrangement and sound prospects offered. Only those with previous experience in similar position will be considered.—Write fully, Box 987, "The Builder."

FOREMAN FITTER Required for Contractor's Plant and Transport, West Surrey Area.—Write giving full details of experience to Box 453, "The Builder."

PLUMBER AND HOT WATER FITTER Required, experienced in all branches, contract and maintenance. Permanent job to right man.—Apply W. H. WILLSON & CO., Ltd., 125 Masons Hill, Bromley, Kent.

A VACANCY occurs, due to retirement, for a BRICKLAYER/PLASTERER used to all types of work, West London firm of Builders. Permanency for reliable and conscientious tradesman.—Apply stating experience, etc., to Box 494, "The Builder."

GENERAL FOREMEN

required for high class work in London, Surrey and Sussex. Must be experienced in all types of contracts up to £250,000 and conversant with modern machinery methods. A non-contributory pension scheme operates and the posts are permanent with excellent opportunities for ambitious men to improve their position. Commencing salary £1,100 per annum.

Box No. 514 "The Builder"

OVERSEAS APPOINTMENTS

Prepaid rate, 24 words, 7/6; additional 6 words, 1/6. Box number, including Forwarding Replies, 1/6.

CHARTERED QUANTITY SURVEYOR, age 24 to 28, wanted for tour of 12 to 15 months in Ghana for building and engineering work, Tema Harbour. Free air passages and furnished quarters.—Apply SIR WILLIAM HALCROW & PARTNERS, Alliance House, Caxton-street, London, S.W.1. Abbey 4061.

EXPERIENCED QUANTITY SURVEYOR Required for work in West Africa for measuring, pricing and agreeing Final Accounts, etc. Accommodation and transport provided, also free passages.—Reply stating age, experience and when available, Box 976, "The Builder."

ASSISTANT RESIDENT QUANTITY SURVEYOR Required in Middle East. Bachelor preferred. Salary and allowances £1,300-£1,600 per annum, according to capabilities and experience. Free accommodation.—Reply, stating age and experience, to Box 974, "The Builder."

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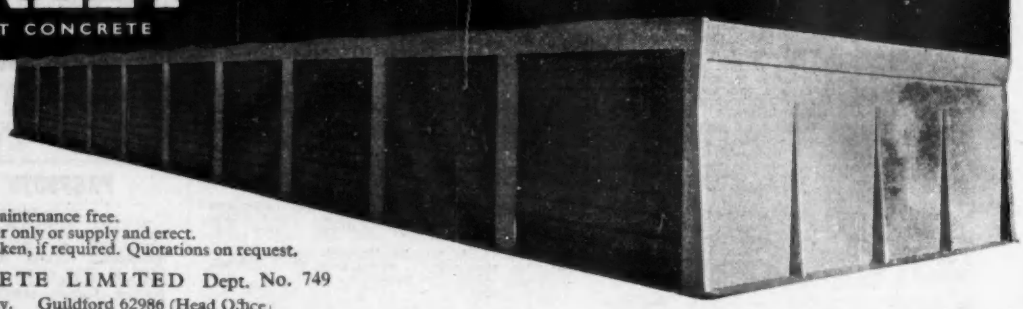

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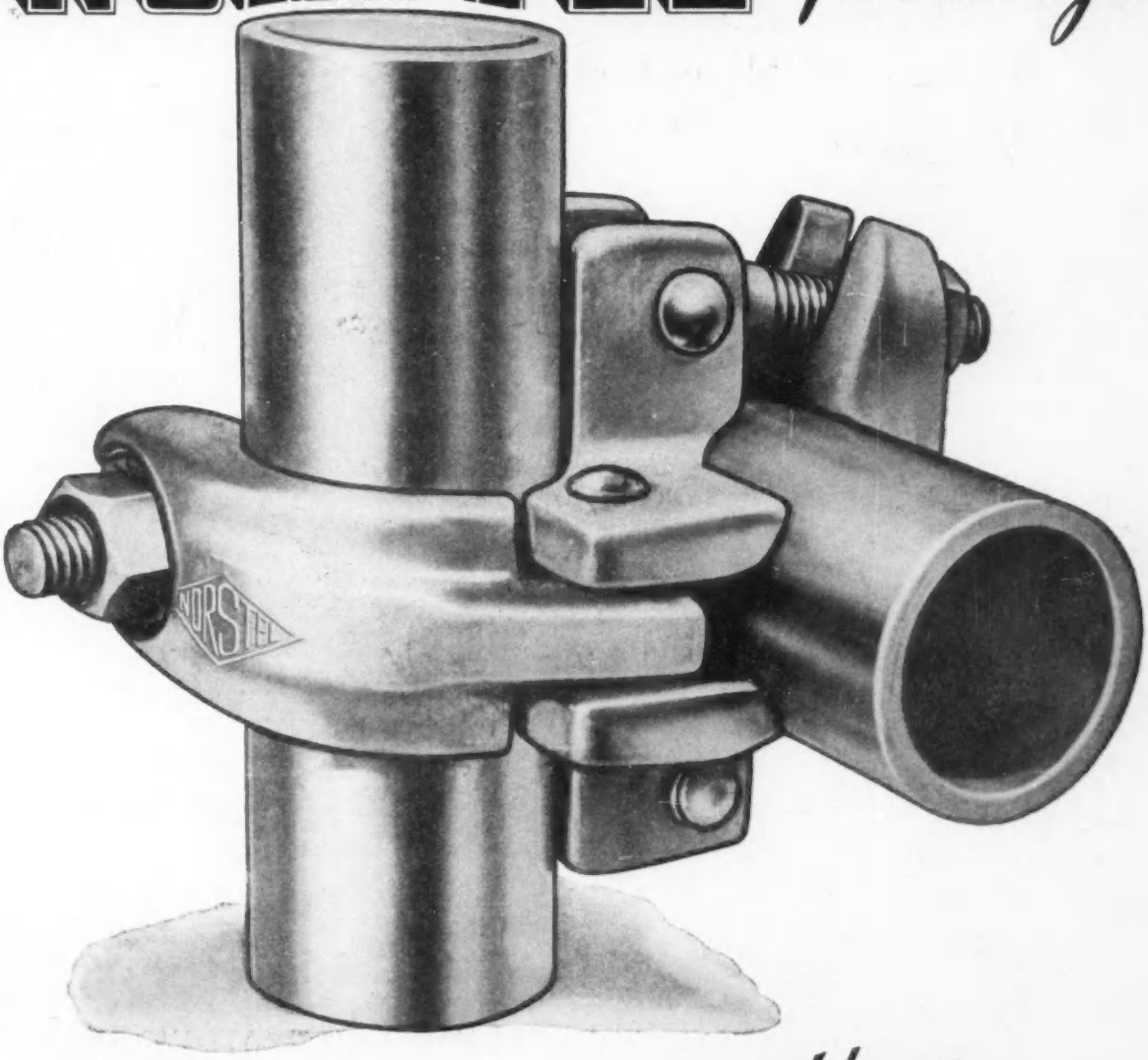

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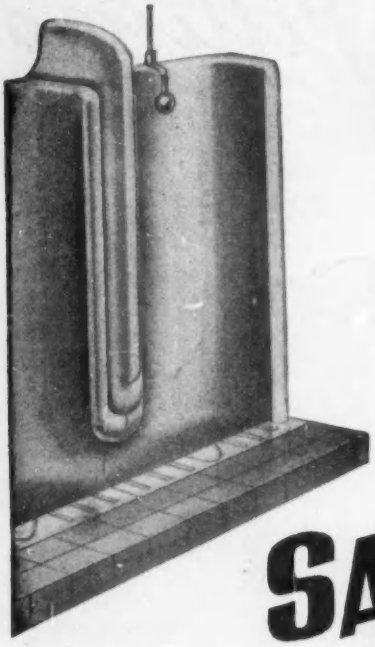

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